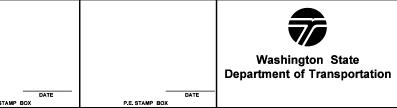
INDEX

SHEET NO.	PLAN REFERENCE NO.	TITLE
		VOLUME 1
1	IN1	INDEX
2	VM1	VICINITY MAP
3-4	SQ1-SQ2	SUMMARY OF QUANTITIES
		VOLUME 2
5	IN2	INDEX
6	CT1	CERTIFICATION SHEET
7-8	QT1-QT2	QUANTITIY TABULATIONS
9-19	IM1-IM11	INTERCHANGE MAP
20	EC1	TESC PLAN
21-29	TC1-TC9	TRAFFIC CONTROL PLANS

NOTE: ALL SHEET REFERENCES, FIRST NOS. OF STRUCTURE CODE DESIGNATIONS AND MATCH LINE SHEET REFERENCES, ETC., THROUGHOUT THE PLANS, REFER TO THE ENTRY IN THE PLAN REFERENCE NUMBER BOX.

FILE NAME	G:\444302\03 - Design\XL6387	21-23 Breakaway	Cable	Terminal Replacement	- Interstat	te\20-CADD-P	lans\2	0-11 P	S&E Sh	eets\D00	021T_PS_IN_CT_VM.dg
TIME	4:17:27 PM							REGION NO.	STATE	FED	.AID PROJ.NO.
DATE	9/28/2023							10	WASH	SEC	164-9999(866)
PLOTTED BY	sheikhu							10	WASH		,
DESIGNED BY	B. SELLARDS								IUMBER		
ENTERED BY	B. SELLARDS							23X	338		
CHECKED BY	M. DEGENHART							CONTR	RACT NO.		LOCATION NO.
PROJ. ENGR.	M. BRIGGS			•	·						XL6387
REGIONAL ADM.	C. FRANCIS		R	EVISION		DATE	BY				



SWR
BREAKAWAY CABLE TERMINAL REPLACEMENT
FREEWAYS 21-23 RE-ADVERTISE

INDEX

SHEET 5 OF
29 SHEETS

IN2

PROJECT LICENSED PROFESSIONAL CERTIFICATES

MMm Mmy			
Mike Briggs			
Oct 11, 2023			
AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.
AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.
AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.

P.E. STAMP BOX

P.E. STAMP BOX

NOTES:

THIS PLAN SET WAS DEVELOPED ELECTRONICALLY UNDER THE DIRECT SUPERVISION OF THE LICENSED PROFESSIONALS THAT HAVE AFFIXED THEIR SIGNATURE TO THIS PAGE.

THIS SHEET SERVES AS THE CERTIFICATION BY THE ABOVE LICENSED PROFESSIONALS OF ALL SHEETS IN THIS PLAN SET WHERE THEIR STAMPS AND SIGNATURES APPEAR.

FILE NAME	G:\444302\03 - Design\XL6387	21-23 Breakaway Cab	le Terminal Replacement - Inter	rstate\20-CADD-F	Plans\2	20-11 PS	S&E Sh	eets\D00021T_PS_IN_CT_VM.d
TIME	4:16:32 PM					REGION NO.	STATE	FED.AID PROJ.NO.
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DESIGNED BY	B. SELLARDS						UMBER	
ENTERED BY	B. SELLARDS					23X	338	
CHECKED BY	M. DEGENHART					CONTR	ACT NO.	LOCATION NO.
PROJ. ENGR.	M. BRIGGS					1		XL6387
REGIONAL ADM.	C. FRANCIS		REVISION	DATE	BY			
			REVISION	DATE	ву			XL6387



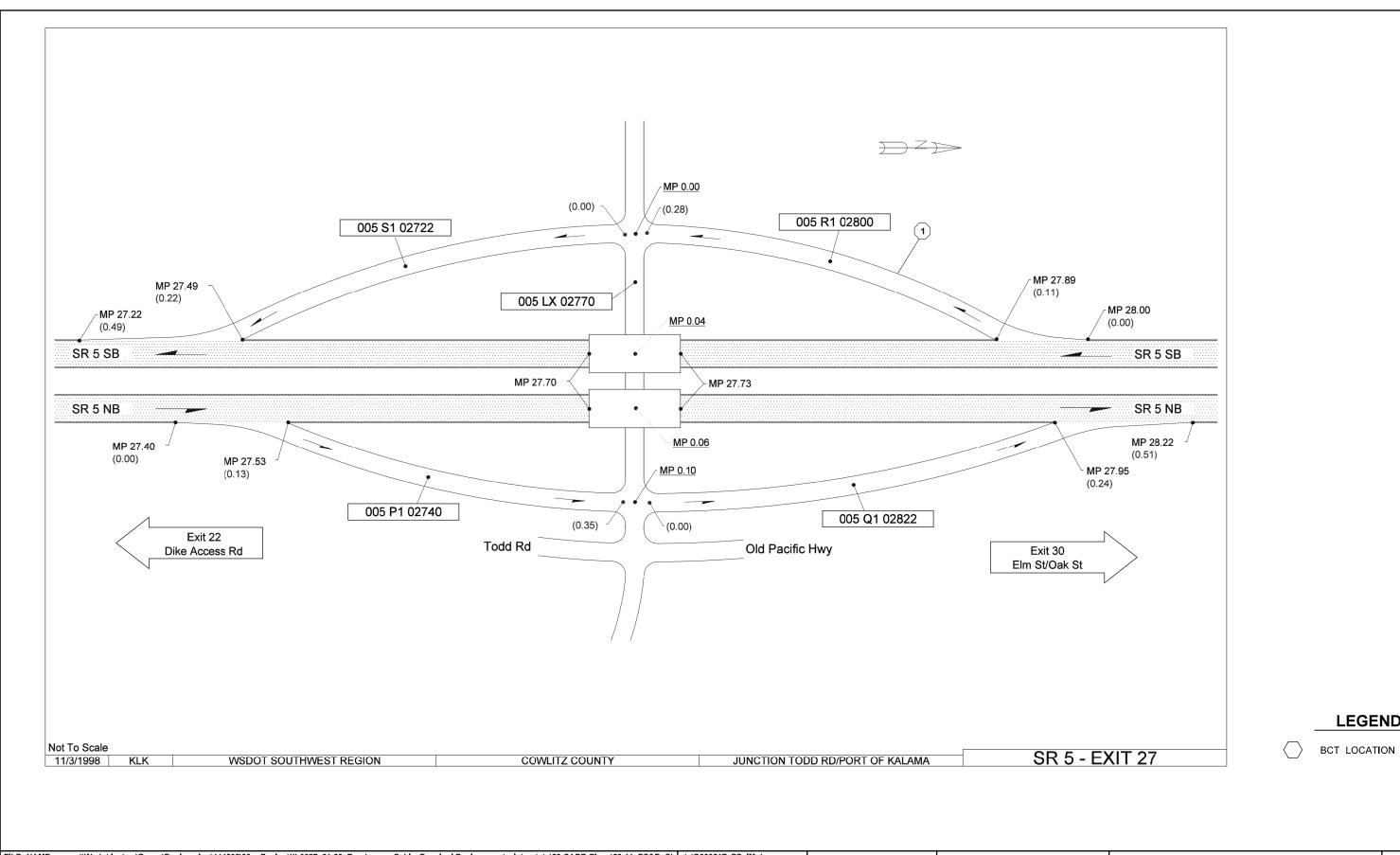
SWR SPEAKAWAY CARLE TERMINAL REPLACEMENT
BREAKAWAY CABLE TERMINAL REPLACEMENT
FREEWAYS 21-23 RE-ADVERTISE

FREEWAYS 21-23 RE-ADVERTISE	SHEET 6 OF
CERTIFICATION SHEET	29 SHEETS

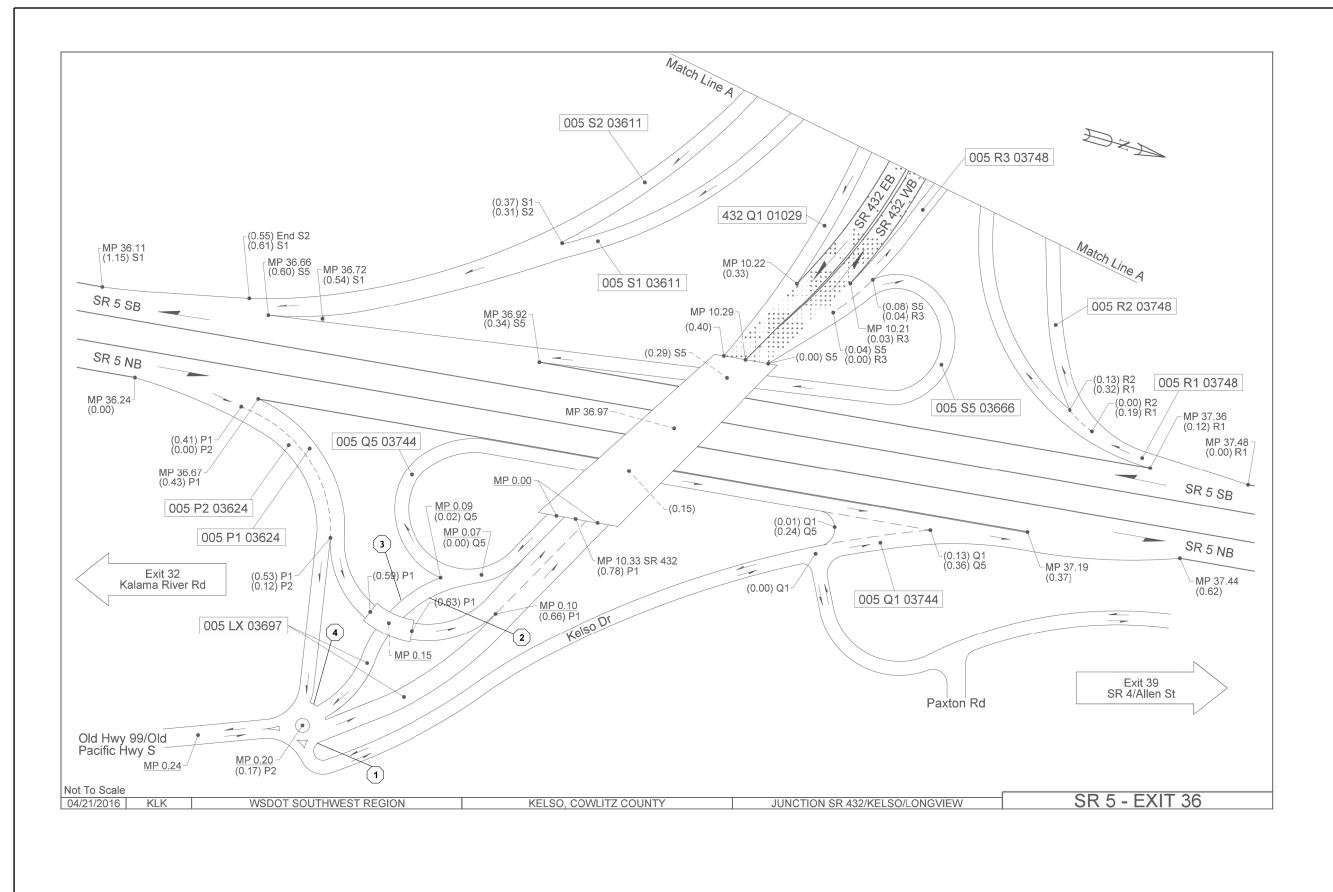
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			QL	JANT	TTY T	TABL	JLATIC	ON						
			S E	1									GENERAL NOTES	
NOTE:			BAS	TYPE	E 31	31								
MP LOCATIONS START AT THE BEGINNING OF THE RAMP	AIL	RAIL	9		<u>a</u>	BEAM GUARDRAIL TYPE NON-FLARED TERMINAL		<u> </u>				ر س		
FOR RAMP DESIGNATIONS P, Q, R, & S, SEE IM1 TO IM11	DR	J &		<u> </u>		<u> </u>		OST				Ш		
	N.		ĕ					Ш				TON		
	'n	GUARD	🛱	옷 %	GUARDRAII	1 K E	JARDRAIL TYPE 11					-		
	G	רט	เร		%		<u>\$</u> £	 ਫ						
	ž	REMOVING	CRUSHED	à≓	l à	3 ¥	GU/	Ш				E NE		
	8	중요	RS SX			5 4	≥9	(IBL			# d	B		
	ZEMO,		l ≥ 3	K	BEAM	I K	BEAM	 			Group	SEE		
CODE LOCATION AND UNIT OF MEASURE				BEAM GUARDRAIL TRANSITION SECTION T				<u> </u>			Ō	<u>is</u>		
CODE LOCATION V \ UNIT OF MEASURE >	L.F. 50	EACH	TON	EACH	L.F.	EACH	EACH	EACH				0 0 5 7 0	GUARDRAIL LOCATIONS TO BE STAKED BY	THE
IM1-1 I-5 SB OFF-RAMP R1 02800 MP 0.15 RT TO TODD RD	50	1	17.5		100	1		3	1		1	2, 3, 5, 7, 9	ENGINEER.	
IM2-1 INTERSECTION OF S KELSO DRIVE RD & OLD HIGHWAY S ROAD Q103744	50	1	9.0			1		3	 		2	1, 2, 5, 7, 9		
IM2-2 SR 432 EB OFF-RAMP LX 03697 MP 0.11 LT ES ROUNDABOUT	75	1 1	9.0		25	1 1		3			2	5, 6, 7, 9	1. TYPE D CONNECTION AND PLATE PER ST	ANDARD
IM2-3 SR 432 EB OFF-RAMP LX 03697 MP 0.13 RT ES ROUNDABOUT	12	1	9.0		50	+ 1		3			2	3, 5, 6, 7, 9	PLAN C-24.10 AND C-24.15	
IM2-4 SR 432 EB OFF-RAMP LX 03697 MP 0.18 RT TO ES ROUNDABOUT	12	1	9.0		25	1		3			2	4, 5, 6, 7, 9	†	
								1					2. SEE STANDARD PLAN C-22.40 FOR BEAM	
IM3-1 I-5 SB OFF-RAMP R1 07141 MP 0.35 RT TO SR 508	60	1	0.0		75	1		3			3	2, 3, 5, 7, 9	GUARDRAIL TYPE 31 NON-FLARED TERMIN	AL-
													MSKT-SP-MGS (TL-3)	
IM4-1 I-5 NB OFF RAMP P1 07765 MP 0.18 RT TO SR6	36	1	17.5		25	1		3			4	2, 3, 5, 7, 9	3 CEE CTANDARD DI ANI C 35 00 503 3544	,
IM4-2 SR6 TO I-5 NB ON-RAMP Q1 07839 MP 0.02 LT	75	1	0.0		25	1		3			4	2, 3, 5, 7, 9	3. SEE STANDARD PLAN C-25.80 FOR BEAN GUARDRAIL TYPE 31 TO BEAM GUARDRAIL	
IM4-3 SR6 TO I-5 NB ON-RAMP Q1 07839 MP 0.02 RT	75	1	17.5		25	1		3			4	2, 3, 5, 7, 9	ADAPTOR	ITPEI
													ADAPTON	
IM5-1 SR14 EB OFF-RAMP P1 00417 MP 0.12 RT TO NB LIESER RD	75	1	17.5		25	1		3			5	2, 3, 5, 7, 9	4. SEE STANDARD PLAN C-23.70 FOR BEAN	1
								1					GUARDRAIL ANCHOR TYPE 11.	
IM6-1 SR14 EB OFF-RAMP P1 01203 MP 0.28 RT TO NW 6TH AVE CITY CENTER	75	1 1	9.0		25	1 1		3			6	2, 3, 5, 7, 9		
IM6-2 SR14 EB NW 6th AVE OFF-RAMP LEFT SHOULDER MP 0.27LT	75	1	0.0		25	1		3			6	2, 3, 5, 7, 9	5. SEE STANDARD PLAN C-20.10 BEAM GUA	ARDRAIL
INT A LOOF NO OFF DAMP OF COOCTAND COFFT TO OPECO MID	7.	1	0.0		0.5	1					7	0.0570	TYPE 31.	
IM7-1 I-205 NB OFF-RAMP P5 03097 MP 0.25RT TO SR500 WB	75	1	9.0		25	1		3			1	2, 3, 5, 7, 9	·	_
IM8-1 I-205 NB SR 14 WB OFF-RAMP MP 0.31RT P5 02690	75	2	0.0		25	1	1	3			7	2, 5, 7, 9	6. SEE STANDARD PLAN C-22.45 FOR BEAN	
11010-1 1-203 ND 31X 14 WD 311 -1 (AIWI WI 0.3 11X 1 1 3 02030	73		0.0	<u> </u>	25	<u>'</u>	'	 	+	+	'	2, 3, 7, 8	GUARDRAIL TYPE 31 NON-FLARED TERMIN SP-MGS (TL-2)	AL- MSK1-
IM9-1 I-205 NB OFF-RAMP TO MILL PLAIN WB MP 0.45RT P5 02793	50	1	0.0		25	1		3			7	2, 3, 5, 7, 9	3F-WG3 (TL-2)	
1110 1 1200 112 011 10 1111 10 1111EE 1 E 1110 173 1111 0.101(1 1 0 0E100		<u> </u>	0.0			· ·		†			•	2, 0, 0, 1, 0	7. THE CONTRACTOR MUST NOTIFY WSDO	T BY
IM10-1 SR 500 EB NE 39TH ST ON-RAMP MP 0.02RT Q1 00068	75	1	17.5		25	1		3			10	3, 5, 6, 7, 9	EMAIL IF THEY DISTURBED ANY GPS SURVE	
												, , , ,	CONTROL POINTS WHILE INSTALLING THE	
IM11-1 SR 432 S1 00751 TENNANT WAY OFF-RAMP TO SR 432 MAIN LINE MP 7.5	150	2	9.0		100	1	1	3			8	5, 6, 7, 9	GUARDRAIL AND BREAKAWAY CABLE TERN	/INALS
IM11-2 3RD AVE ON-RAMP TO SR 432 EB MAIN LINE MP 7.61RT	125	1	68.8	1	88	1		3			8	1, 5, 6, 7, 8, 9	(N/A)	
													8. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ANY SIGNS OR GUIDE POSTS	AATIENI
													THEY ARE INSTALLING THE GUARD RAIL	WHEN
		-			-			1	 				THE TAKE INSTALLING THE GUARD RAIL	
		-			-		1	+	 				9. PROVIDE FLEXIBLE GUIDEPOST PER STAI	NDARD
								+	 				PLANS M-40.10-03 TO M-40.60-00. PROVI	
		-			1		+	+	 				MINIMUM PER LOCATION	
				-	-		+	+	 				1	
					-		+	+	 				1	
								+	 				1	
SHEET TOTAL	1220	20	219	1	713	18	2	54						
PROJECT TOTAL	1644.5	29	341.81	1	926	26	2	78						
				REGION NO.			FED. AID F	PROJ. NO.					014/5	
												_	SWR	QT1
DESIGNED BY U. SHEIKH				10					l _				/ Cable Terminal Replacement	
ENTERED BY U. SHEIKH					L				Washing	ton State	on State Freeways 21-23 Re-advertise ent of Transportation	ways 21-23 Re-advertise	SHEET	
CHECKED BY M. DEGENHART					JMBER		SEC 164-9	9999(866)	Departm	nent of Transpo	ortation			7
PROJ. ENGR. M. BRIGGS				23X								_	ALIANITITY TABLE ATION	OF
REGION ADM. C. FRANCIS		DE\ // 01.01		CONTRA	ACT NO.							l Q	UANTITY TABULATION	29
DATE DATE		REVISION												SHEETS

					QU	<u>ANTI</u>	TY T	ABUL	ATIC	N						
		NIT OF MEASURE ➢	THEMOVING GUARDRAIL	PIREMOVING GUARDRAIL PANCHOR	GCRUSHED SURFACING BASE Z COURSE	EEAM GUARDRAIL DITRANSITION SECTION TYPE	"HBEAM GUARDRAIL TYPE 31	의 BEAM GUARDRAIL TYPE 31 의 NON-FLARED TERMINAL	D D D D D D D D D D D D D D D D D D D	H FLEXIBLE GUIDE POST			Group #	SEE GENERAL NOTES	GENERAL NOTES:	
SR 14 SR14 EB MAIN LINE MP 4 SR14 EB MAIN LINE MP 4 SR14 WB MAIN LINE MP 4 SR 500 SR 500 EB MAIN LINE MP	.94 RT .95 RT 3.64 RT	EIGH STATION	75 75 25 75 75	1 1 1 1 1	0.0 68.6 0.0 9.0 45.0		25 25 25 25 25 25	1 1 1 1 1		3 3 3 3 3			5 5 5	2, 3, 4, 5, 7, 9 2, 3, 5, 7, 9 2, 3, 5, 7, 9 2, 3, 5, 7, 9 2, 3, 5, 7, 9	GUARDRAIL LOCATIONS TO BE STAKED BY T ENGINEER. 1. TYPE D CONNECTION AND PLATE PER STAPLAN C-24.10 AND C-24.15 2. SEE STANDARD PLAN C-22.40 FOR BEAM	NDARD GUARDRAIL
SR 432 SR432 EB MAIN LINE MP SR432 EB MAIN LINE MP SR432 WB MAIN LINE MP	8.61 RT		12.5 75 12	2 1 1	0.0 0.0 0.0		25 25 38	1 1 1		3 3 3			9 9	2, 3, 4, 5, 7, 9 2, 3, 5, 7, 9 2, 3, 4, 5, 7, 9	TYPE 31 NON-FLARED TERMINAL - MSKT-SP 3. SEE STANDARD PLAN C-25.80 FOR BEAM TYPE 31 TO BEAM GUARDRAIL TYPE 1 ADAP 4. SEE STANDARD PLAN C-23.70 FOR BEAM ANCHOR TYPE 11. 5. SEE STANDARD PLAN C-20.10 BEAM GUA	GUARDRAIL TOR GUARDRAIL
															 31. 6. SEE STANDARD PLAN C-22.45 FOR BEAM TYPE 31 NON-FLARED TERMINAL- MSKT-SP- 7. THE CONTRACTOR MUST NOTIFY WSDOT THEY DISTURBED ANY GPS SURVEY CONTRO 	GUARDRAIL MGS (TL-2) BY EMAIL IF L POINTS
															WHILE INSTALLING THE GUARDRAIL AND BREAKAWAY CABLE TERMINALS (N/A) 8. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ANY SIGNS OR GUIDE POSTS WHEN THEY ARE INSTALLING THE GUARD RAIL 9. PROVIDE FLEXIBLE GUIDEPOST PER STANDARD PLANS M-40.10-03 TO M-40.60-00. PROVIDE 3 MINIMUM PER	
		SHEET TOTAL	425	9	123	0	213	8	0	24					LOCATION	
DESIGNED BY ENTERED BY CHECKED BY PROJ. ENGR. REGION ADM. U. SHEIKH U. SHEIKH M. DEGENHAR M. BRIGGS C. FRANCIS	T DATE	PROJECT TOTAL DATE	1644.5	29 REVISION	341.81	1 REGION NO. 10 JOB N 23>	926	26	2	78 PROJ. NO.	Wash Depa	ington State rtment of Trans	portation	Free	SWR / Cable Terminal Replacement ways 21-23 Re-advertise	QT2 SHEET 8 OF 29 SHEETS

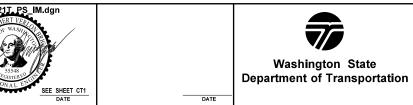


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TIME	8:27:19 AM			REGION STATE	FED.AID PROJ.NO.	ROBERT VERY				PLAN REF NO	٦
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DESIGNED BY	U. SHEIKH			JOB NUMBER		/ SIMM SALVINE		Washington State	FREEWAYS 21-23 RE-ADVERTISE	SHEET	٦
ENTERED BY	U. SHEIKH			23X338		55548				9	
CHECKED BY	M. DEGENHART			CONTRACT NO.	LOCATION NO.	GOONAL ENGINEERS		Department of Transportation		OF	
PROJ. ENGR.	M. BRIGGS				XL6387	SEE SHEET CT1 DATE	DATE		INTERCHANGE MAP	29 SHEETS	-
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY	AE0301	P.E. STAMP BOX	P.E. STAMP BOX			SHEETS	



BCT LOCATION

FILE NAME	\\Wsdot.loc\sw\Group\Engineer	ring\444302\03 - Design\XL6387 21-23 Breakaway Cable	Terminal Repl	aceme	ent - Int	erstate\2	0-CADD-Plans\20-11 PS&E Sh	eets\D00021T_PS_IM.dgn
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DESIGNED BY	U. SHEIKH				JOB NUMBER			
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CHECKED BY	M. DEGENHART				CONTR	ACT NO.	LOCATION NO.	SSONAL ENGINEER
PROJ. ENGR.	M. BRIGGS						XL6387	SEE SHEET
REGIONAL ADM.	. C. FRANCIS	REVISION	DATE	BY			AL0301	P.E. STAMP BOX

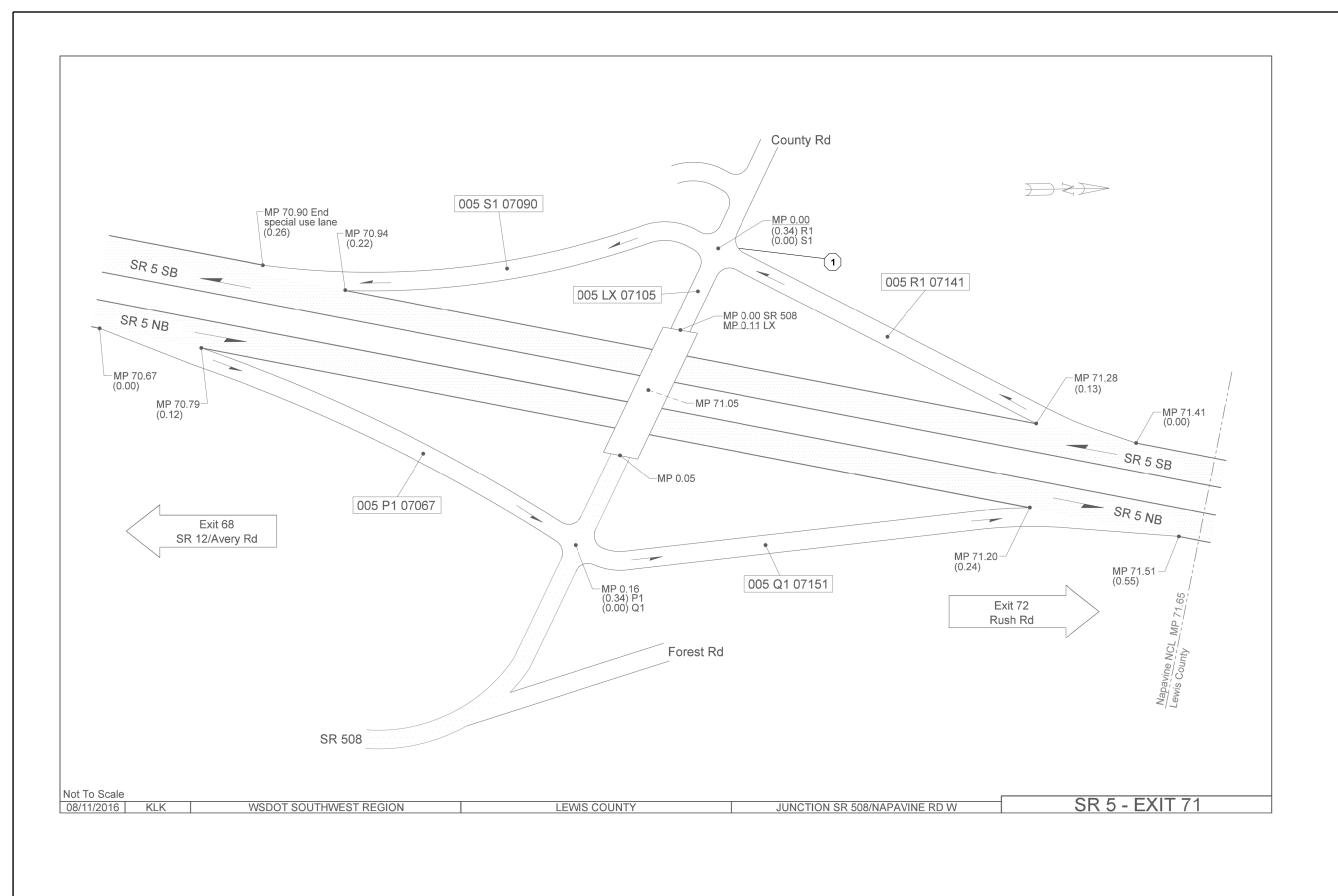


SWR
BREAKAWAY CABLE TERMINAL REPLACEMENT
FREEWAYS 21-23 RE-ADVERTISE

INTERCHANGE MAP

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PLAN REF NO



BCT LOCATION

FILE NAME	\\Wsdot.loc\sw\Group\Engineer	ring\444302\03 - Design\XL6387 21-23 Breakaway Cable 1	Terminal Repl	lacem	ent - Inter	state\2	0-CADD-Plans\20-11 PS&E S	heets\D0002 <u>1T_PS_</u> IM.dgn
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PROJ. ENGR.	M. BRIGGS						XL6387	SEE SHEET CT1 DATE
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			AL0301	P.E. STAMP BOX

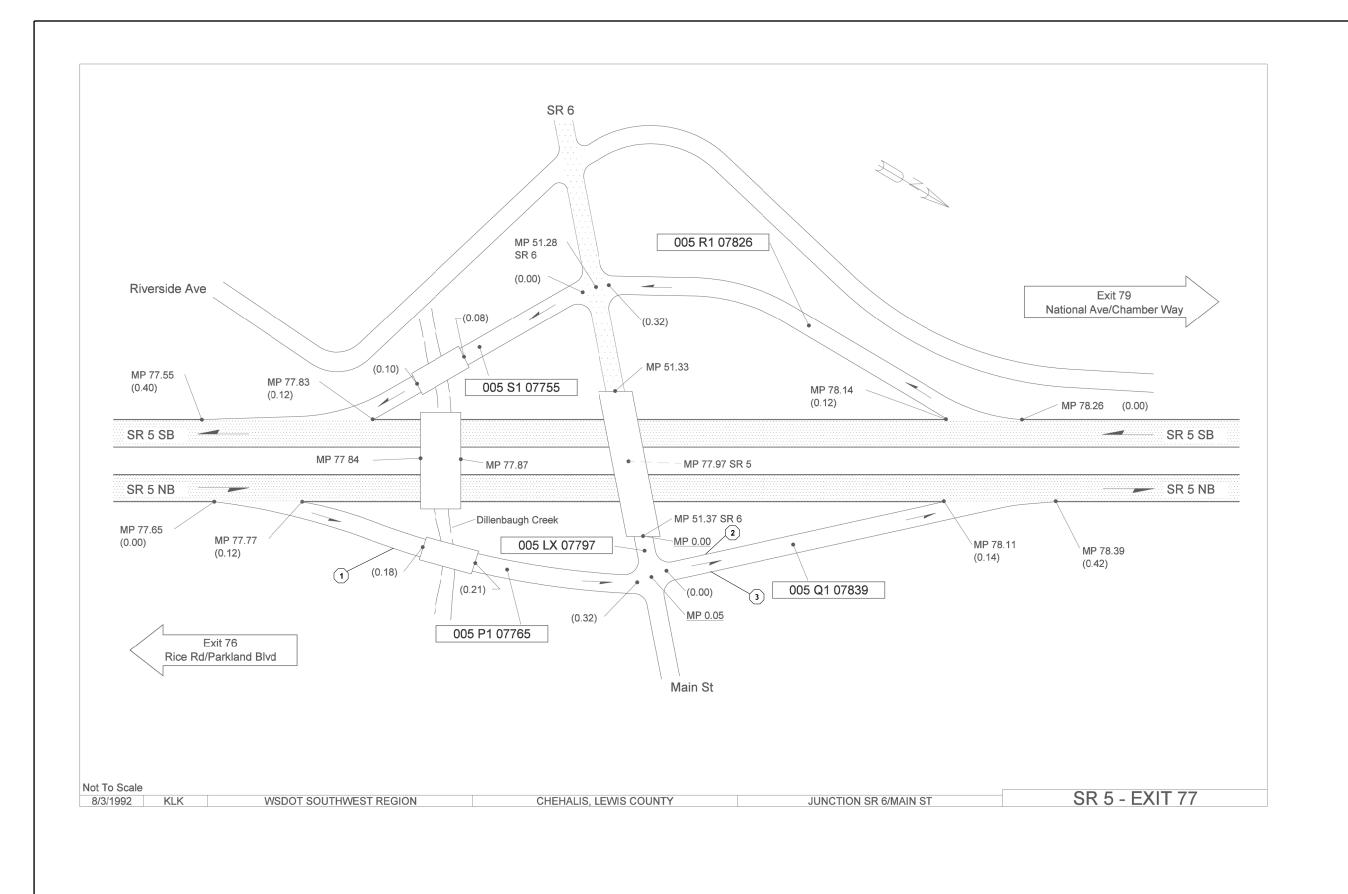




SWR
BREAKAWAY CABLE TERMINAL REPLACEMENT
FREEWAYS 21-23 RE-ADVERTISE

11 **29** SHEETS

PLAN REF NO IM3



BCT LOCATION

FILE NAME	\\Wsdot.loc\sw\Group\Enginee	ring\444302\03 - Design\XL6387 21-23	Breakaway Cable '	Terminal Repl	aceme	ent - Inte	erstate\2	0-CADD-Plans\20-11 PS&E	Sheets\D00021T_PS_IM.dgn
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REGIONAL ADM.	C. FRANCIS	REVISION		DATE	BY			ALOJOI	PE STAMP BOX



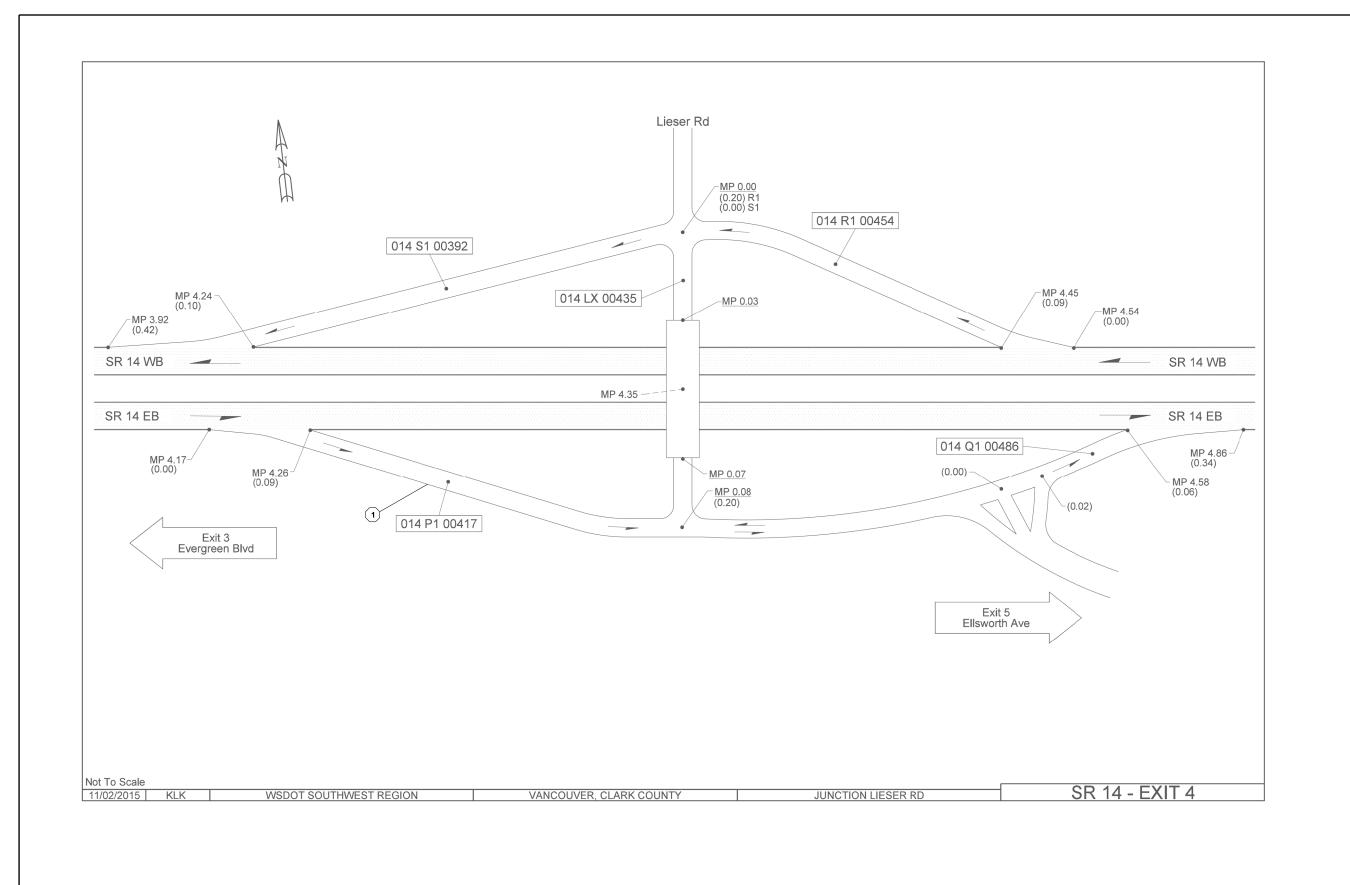


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BREAKAWAY CABLE TERMINAL REPLACEMENT
FREEWAYS 21-23 RE-ADVERTISE

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PLAN REF NO IM4



BCT LOCATION

FILE NAME	\\Wsdot.loc\sw\Group\Enginee	ring\444302\03 - Design\XL6387 21-23 Breakaway Cable	Terminal Rep	lacem	ent - Interstate	\20-CADD-Plans\20-11 PS&E Sh	eets\D0002 <u>1T_PS_</u> IM.dgn
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ENTERED BY	U. SHEIKH				23X338		55548
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PROJ. ENGR.	M. BRIGGS					XL6387	SEE SHEET CT1
REGIONAL ADM	C FRANCIS	REVISION	DATE	BV	1	/ ALOSO!	DE STAMP POY



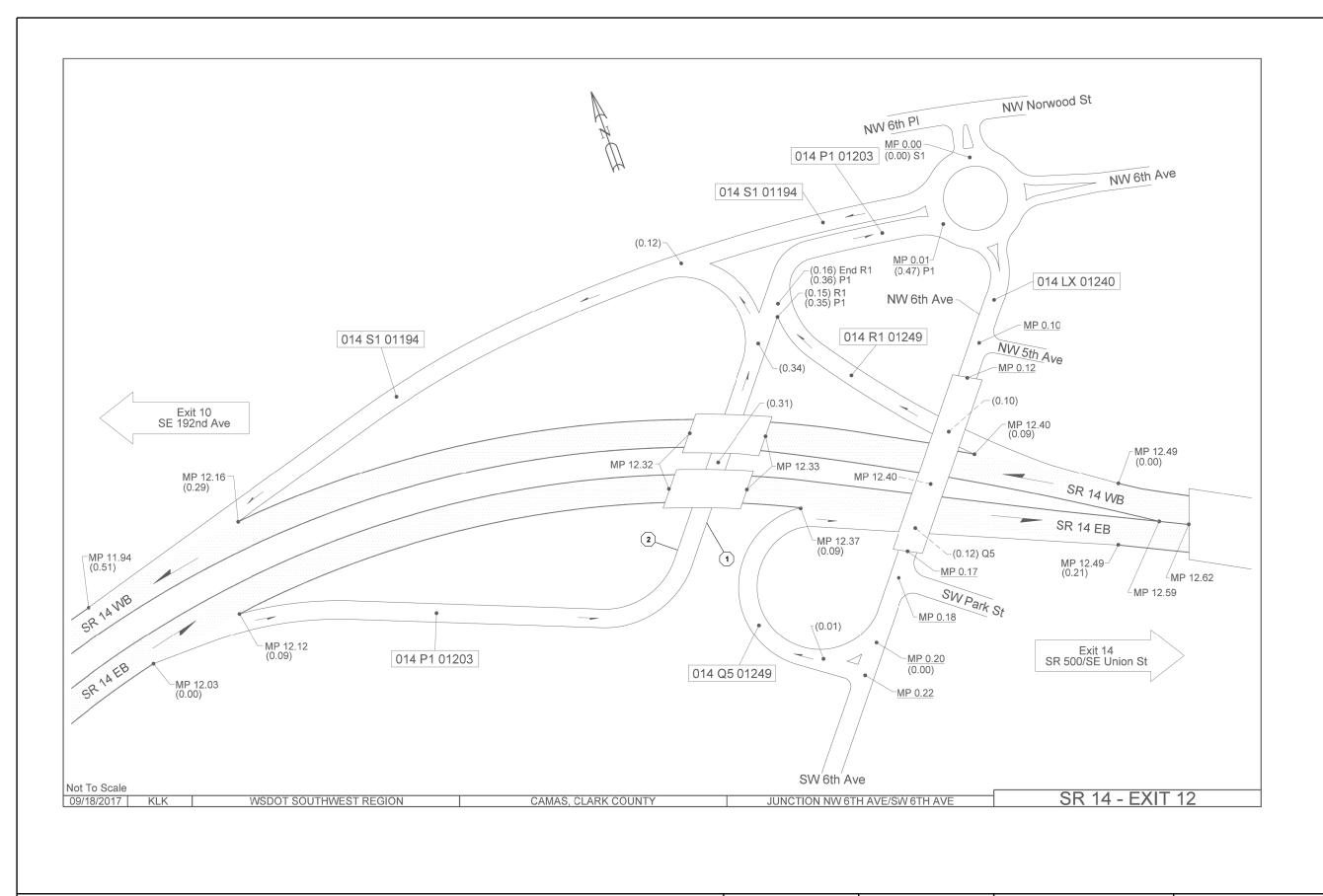
7	BREAKAWAY
Washington State epartment of Transportation	FREE\

SWR CABLE TERMINAL REPLACEMENT EWAYS 21-23 RE-ADVERTISE

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PLAN REF NO

IM5



BCT LOCATION

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ENTERED BY	U. SHEIKH				23X33	8	55548		
CHECKED BY	M. DEGENHART				CONTRACT	NO. LOCATION NO.	SONAL ENGIN		Department o
PROJ. ENGR.	M. BRIGGS]	XL6387	SEE SHEET CT1	DATE	
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY		AE0301	P.E. STAMP BOX	P.E. STAMP BOX	

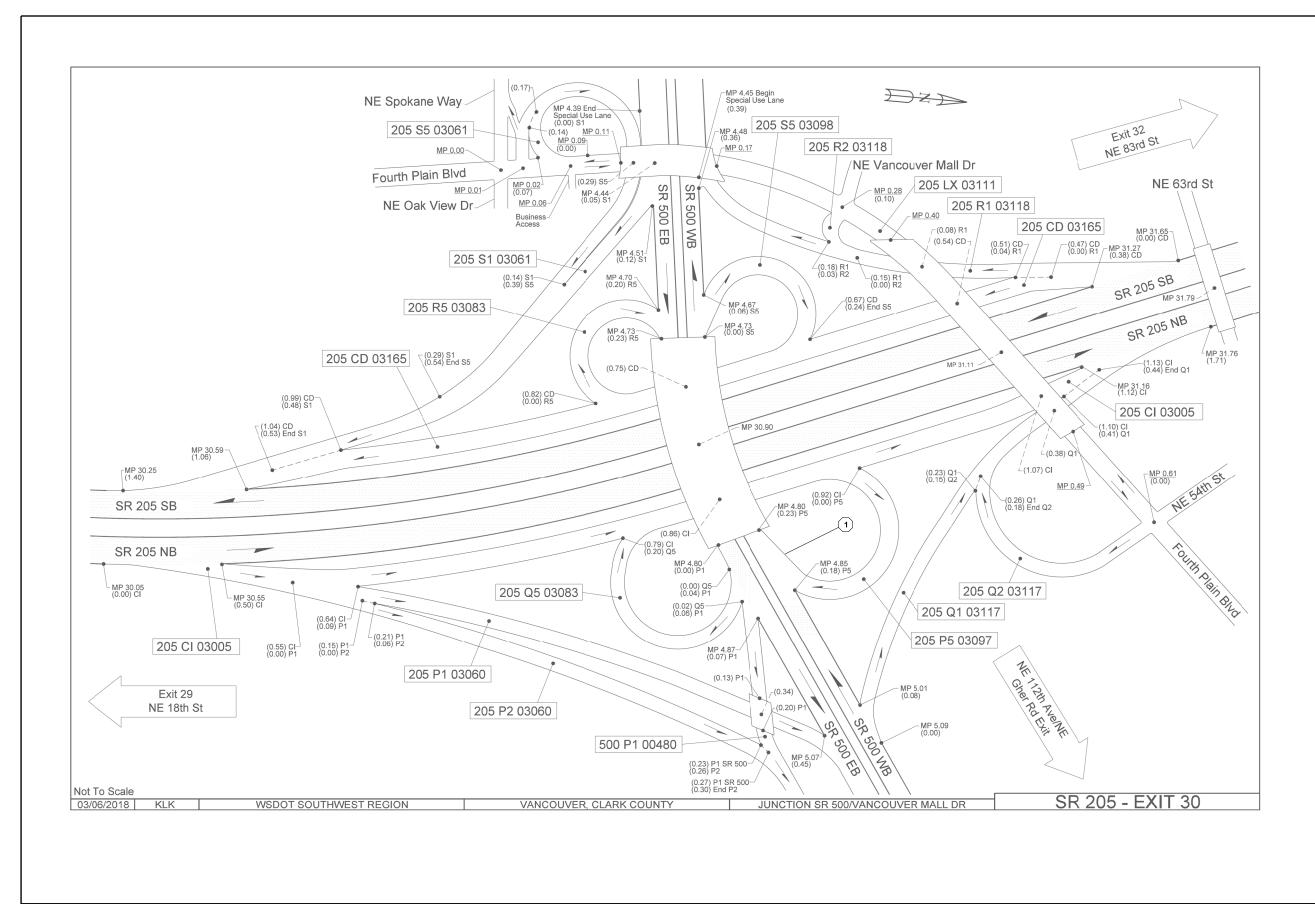
Washington State
Department of Transportation

SWR BREAKAWAY CABLE TERMINAL REPLACEMENT FREEWAYS 21-23 RE-ADVERTISE

SHEET
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OF
29
SHEETS

PLAN REF NO

IM6



BCT LOCATION

FILE NAME	\\Wsdot.loc\sw\Group\Enginee	ring\444302\03 - Design\XL6387 21-23 Breakaway Cable	Terminal Repl	acem	ent - Inte	erstate\2	0-CADD-Plans\20-11 PS&E Sh	ets\D0002 <u>1T_PS_</u> IM.dgn
TIME	8:35:51 AM				REGION NO.	STATE	FED.AID PROJ.NO.	ROBERT VERY
DATE	10/10/2023				10	WASH	SEC 164-9999(866)	
PLOTTED BY	prendet				''	WASH	020 104 3333(000)	
DESIGNED BY	U. SHEIKH				JOB NU			
ENTERED BY	U. SHEIKH				23X	338		55548
CHECKED BY	M. DEGENHART				CONTRA	ACT NO.	LOCATION NO.	STONAL ENGIN
PROJ. ENGR.	M. BRIGGS						XL6387	SEE SHEET CT1
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			AE0301	P.E. STAMP BOX





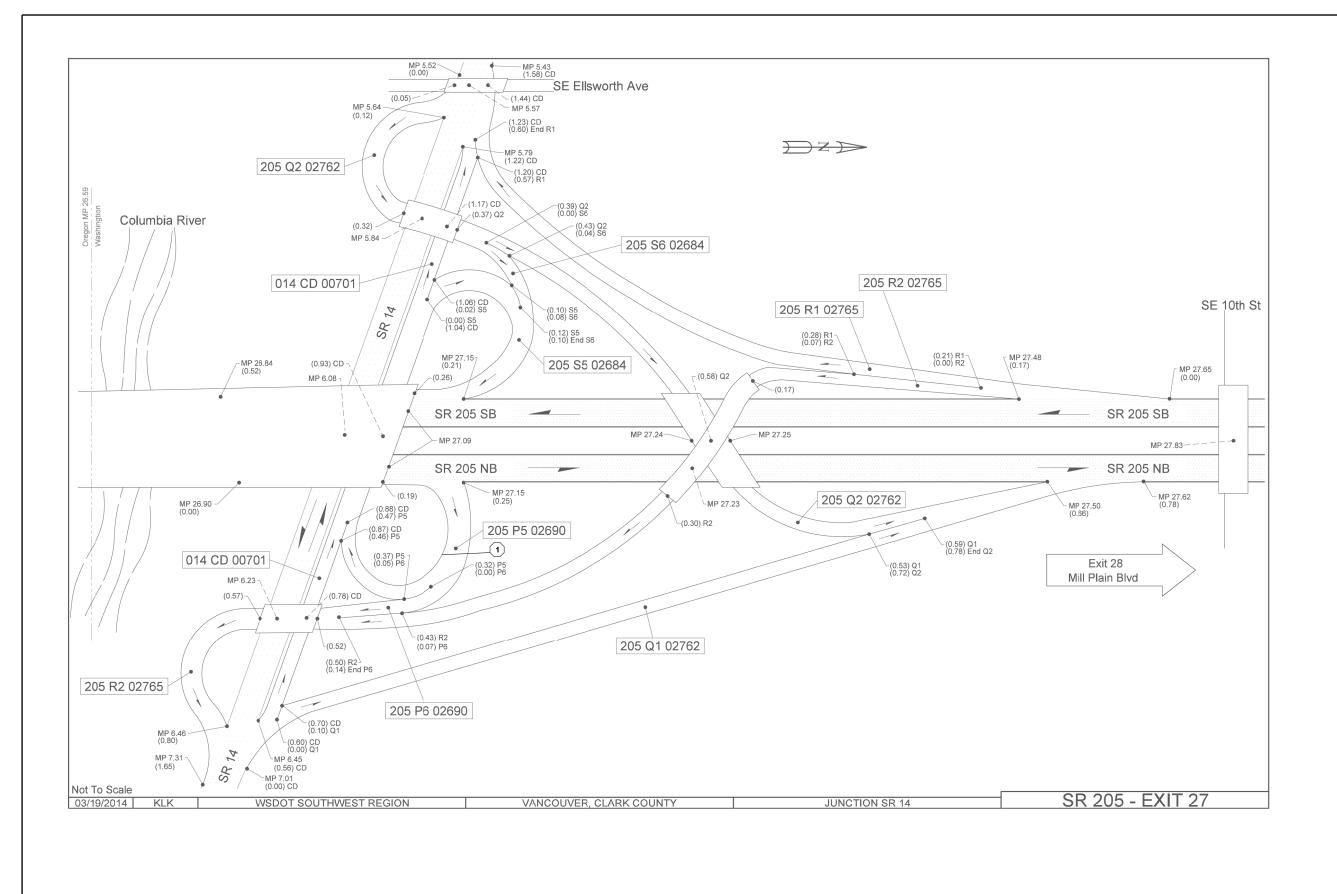
DATE

SWR BREAKAWAY CABLE TERMINAL REPLACEMENT FREEWAYS 21-23 RE-ADVERTISE

15 of 29 SHEETS

PLAN REF NO

IM7



BCT LOCATION

FILE NAME	\\Wsdot.loc\sw\Group\Engineer	ing\444302\03 - Design\XL6387	21-23 Breakaway	Cable 1	erminai Repi	aceme	ent - Int	erstate\2	O-CADD-F	'lans\20-11	PS&E S	jnę
TIME	8:36:37 AM						REGION NO.	STATE	FED.	AID PRO	J.NO.	П
DATE	10/10/2023							WASH	SEC	164-999	9/866)	
PLOTTED BY	prendet						10	WASH	OLO	104 333.	3(000)	
DESIGNED BY	U. SHEIKH						JOB N					
ENTERED BY	U. SHEIKH						23X	338				
CHECKED BY	M. DEGENHART						CONTR	ACT NO.		LOCATION NO.		
PROJ. ENGR.	M. BRIGGS									XL6387	,	
REGIONAL ADM.	C. FRANCIS	REVISION	ON		DATE	BY				,,_050 <i>1</i>		

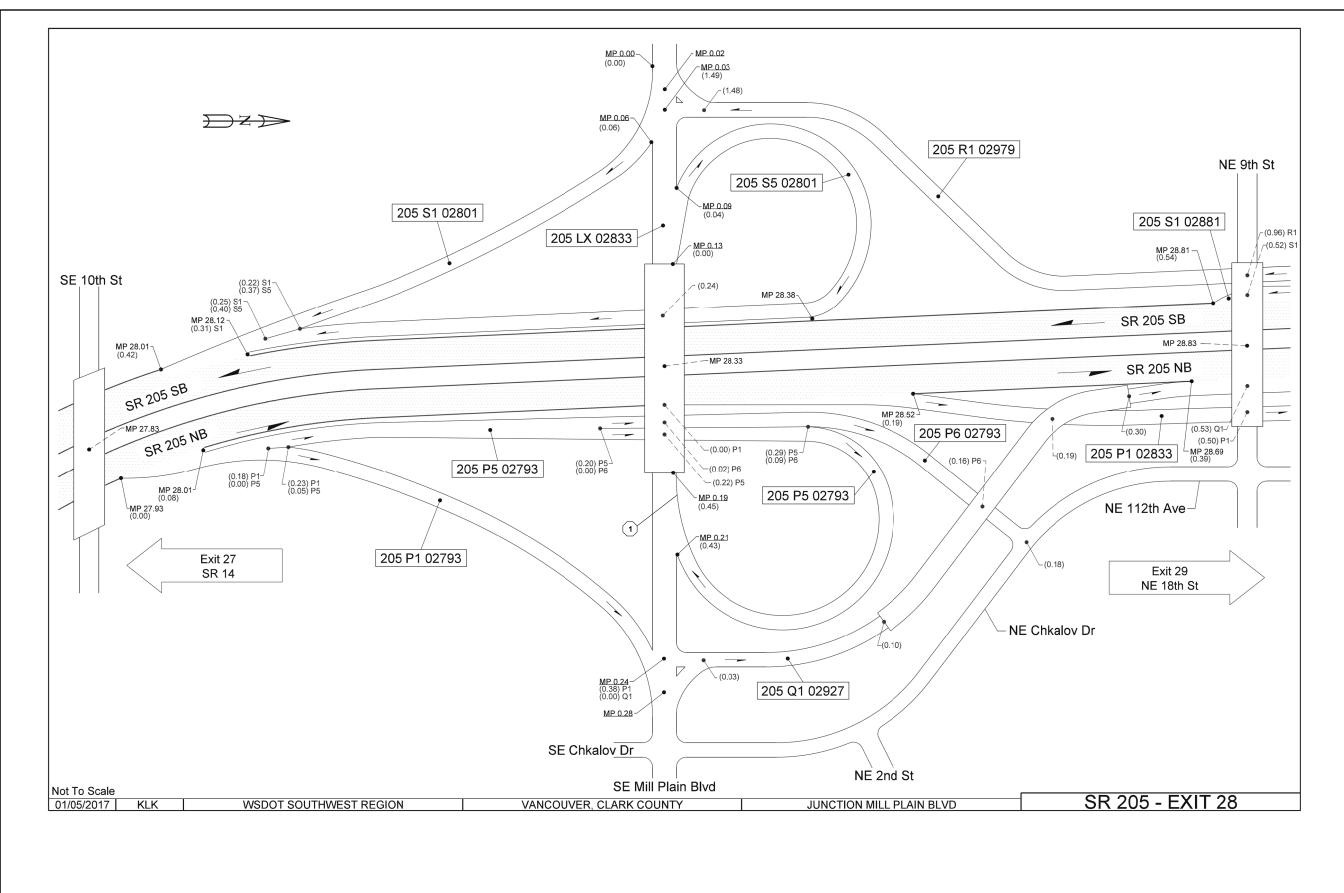


**	
Washington State Department of Transportation	
<u> </u>	

SWR
BREAKAWAY CABLE TERMINAL REPLACEMENT
FREEWAYS 21-23 RE-ADVERTISE

16 OF 29 SHEETS

PLAN REF NO IM8

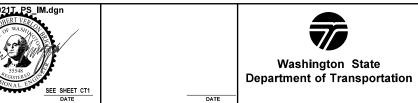


PLAN REF NO

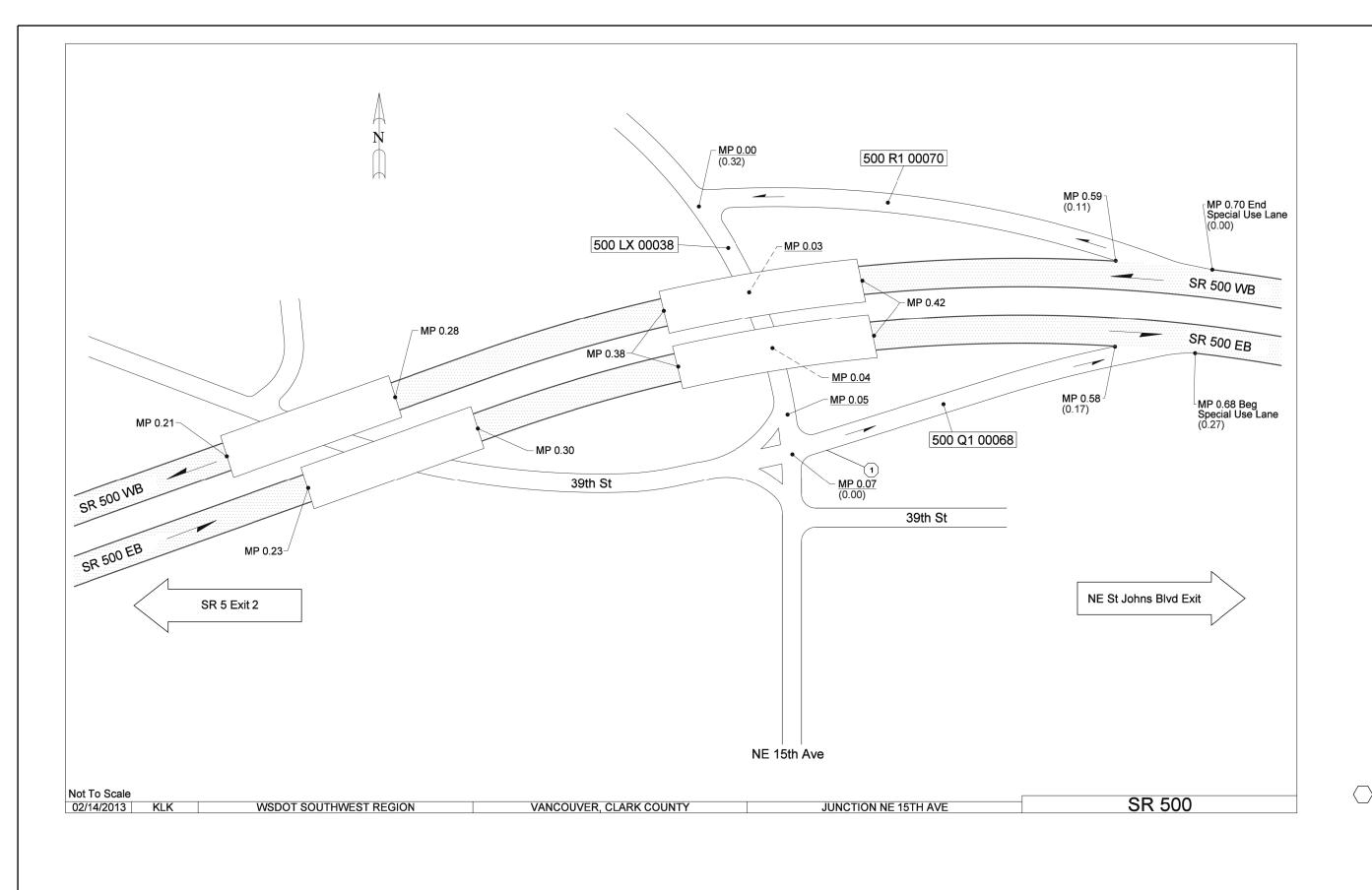
17 OF 29 SHEETS

BCT LOCATION

FILE NAME	\\Wsdot.loc\sw\Group\Engineer	ring\444302\03 - Design\XL6387 21-23 Breakaway Cable	Terminal Rep	lacem	ent - Inte	erstate\2	0-CADD-Plans\20-11 PS&E S	Sheets\D00021T_PS_IM.dgn
TIME	8:37:15 AM				REGION NO.	STATE	FED.AID PROJ.NO.	ROBERT VERY
DATE	10/10/2023					WASH	SEC 164-9999(866)	Se of WASHING
PLOTTED BY	prendet				ן יי ן	WASH	3E3 104-3333(000)	
DESIGNED BY	U. SHEIKH				JOB NU			
ENTERED BY	U. SHEIKH				23X	338		55548
CHECKED BY	M. DEGENHART				CONTRA	ACT NO.	LOCATION NO.	GONAL ENGINEER
PROJ. ENGR.	M. BRIGGS						XL6387	SEE SHEET CT1
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			AE3301	P.E. STAMP BOX

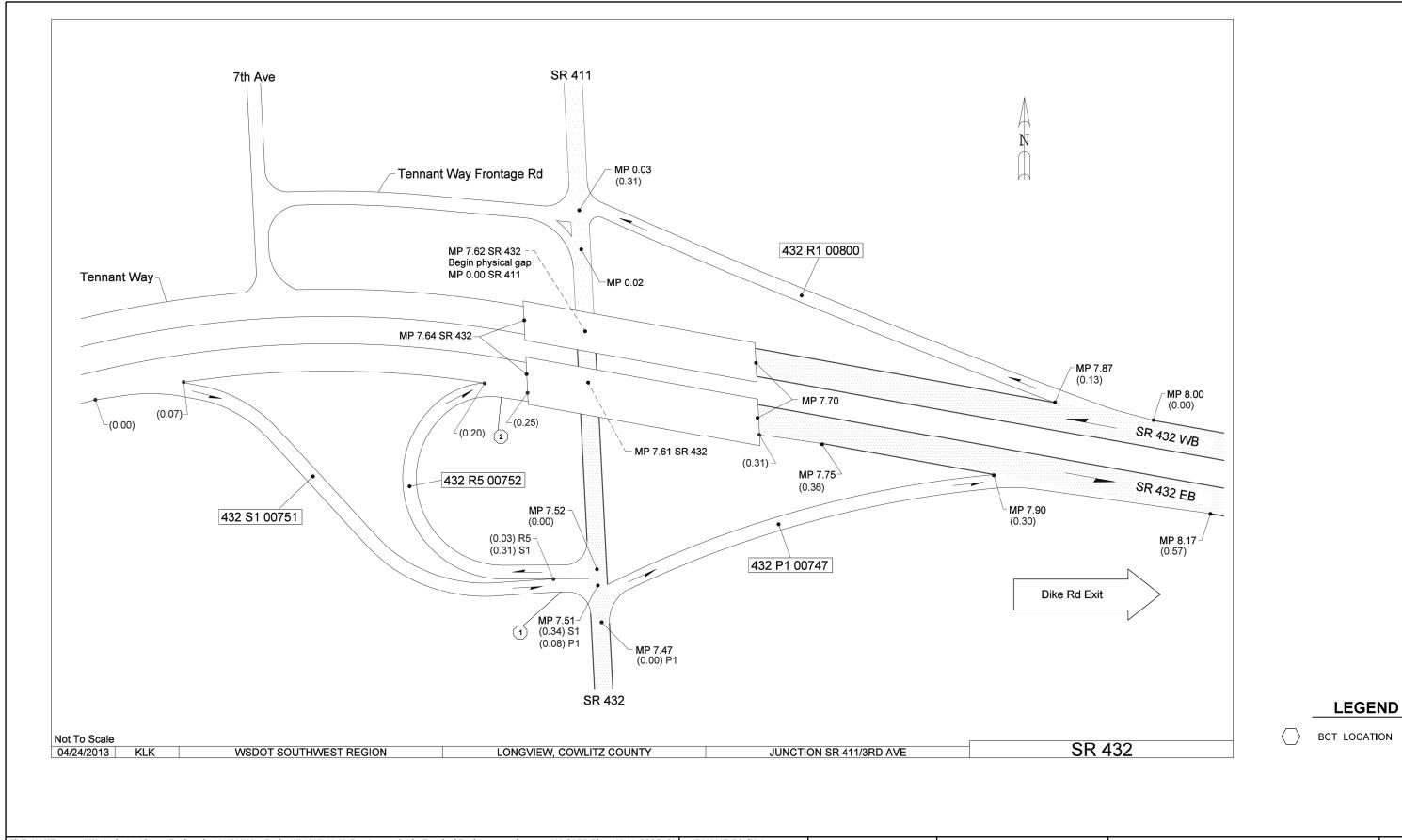


SWR BREAKAWAY CABLE TERMINAL REPLACEMENT
FREEWAYS 21-23 RE-ADVERTISE



FILE NAME	//Wedat loc/ew/Group/Enginee	ering\444302\03 - Design\XL6387 21-23 Breakaway Cable	Terminal Pen	lacomo	nt - Interetatel	20_CADD_Diane\20_11	hote\D00021T PS IM dan	I	T	T	
TIME	8:37:56 AM	Bring 444-302/03 - Designix Cosor 21-23 Breakaway Gable	Terminal Kep	T	REGION STATE	FED.AID PROJ.NO.	ROBERT VERV				PLAN REF
DATE	10/10/2023				10 WASH	SEC 164-9999(866)				SWR BREAKAWAY CABLE TERMINAL REPLACEMENT	IM1
PLOTTED BY DESIGNED BY	prendet U. SHEIKH				JOB NUMBER					FREEWAYS 21-23 RE-ADVERTISE	
NTERED BY	U. SHEIKH				23X338		55548		Washington State Department of Transportation		sн 1
HECKED BY	M. DEGENHART				CONTRACT NO.	LOCATION NO.	SSIONAL ENGIN		Department of Transportation		2 ⊢
ROJ. ENGR.	M. BRIGGS					XL6387	SEE SHEET CT1	DATE	-	INTERCHANGE MAP	
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY		/ ALOSO1	P.E. STAMP BOX	P.E. STAMP BOX			SH

BCT LOCATION



FILE NAME	\\Wsdot.loc\sw\Group\Enginee	ring\444302\03 - Design\XL6387 21-23 Breakaway Cable	Terminal Rep	lacem	ent - Interstate	20-CADD-Plans\20-11 PS&E She	ets\D0002 <u>1T_PS_</u> IM.dgn				
TIME	8:38:41 AM				REGION STATE	FED.AID PROJ.NO.	ROBERT VERY				PLAN REF NO
DATE	10/10/2023				10 WASH	SEC 164-9999(866)	Size of WASH			SWR	IM11
PLOTTED BY	prendet				IU WASI	1				BREAKAWAY CABLE TERMINAL REPLACEMENT	""" '
DESIGNED BY	U. SHEIKH				JOB NUMBER	1	/XIXIMX ZALIMIN		Washington State	FREEWAYS 21-23 RE-ADVERTISE	SHEET
ENTERED BY	U. SHEIKH				23X338		55548		9		19
CHECKED BY	M. DEGENHART				CONTRACT NO.	LOCATION NO.	STONAL EX		Department of Transportation		_ OF
PROJ. ENGR.	M. BRIGGS					XL6387	SEE SHEET CT1 DATE	DATE		INTERCHANGE MAP	29 SHEETS
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY		/ AE0307	P.E. STAMP BOX	P.E. STAMP BOX			SHEETS

SEE STANDARD PLAN I-30.60 FOR COIR LOG PLACEMENT						
ROUTE	BCT - LOCATION			QUANTITY		
SR 432	INTERSECTION OF S KELSO DRIVE RD & OLD HIGHWAY S ROAD			120 LF		

SEE STANDARD PLAN I-40.20 FOR STORM DRAIN INLET PROTECTION							
ROUTE	BCT - LOCATION	QUANTITY					
I-5	L5 NB OFF RAMP P1 07765 MP 0.18 RT TO SR6	1 EACH					
I-205	I-205 NORTHBOUND OFF-RAMP TO MILL PLAIN WESTBOUND MP0.45	1 EACH					
SR 432	SR 432 S1 00751 TENNANT WAY OFF-RAMP TO SR 432 Main Line MP 7.51	1 EACH					
SR 432	3RD AVE ON-RAMP TO SR 432 EASTBOUND Main Line MP 7.61	1 EACH					
SR 500	SR 500 EASTBOUND NE 39TH ST ON-RAMP MP 0.02RT	1 EACH					

FILE NAME	\\Wsdot.loc\sw\Group\Enginee	ring\444302\03 - Design\XL6387 21-23 Breakaway Cable	Terminal Repl	acem	ent - Int	erstate\2	20-CADD	-Plans\20-11	PS&E S	hee
TIME	8:42:04 AM				REGION NO.	STATE	FED	.AID PRO	J.NO.	7
DATE	10/10/2023					MACH	SEC	164-999	99(866	١L
PLOTTED BY	prendet				יי ן	WASH			(000	1
DESIGNED BY	U. SHEIKH				JOB N					1.
ENTERED BY	U. SHEIKH				23X	338				- 1
CHECKED BY	M. DEGENHART				CONTR	ACT NO.		LOCATION NO.		1
PROJ. ENGR.	M. BRIGGS							XL6387		
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY				AL0301		





DATE

SWR
BREAKAWAY CABLE TERMINAL REPLACEMENT
FREEWAYS 21-23 RE-ADVERTISE

TESC PLAN

PLAN REF NO
EC1

SHEET
20
OF
29
SHEETS

SIGN SPACING	= X (1)	
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE

INTERSECTIONS AND DRIVEWAYS.

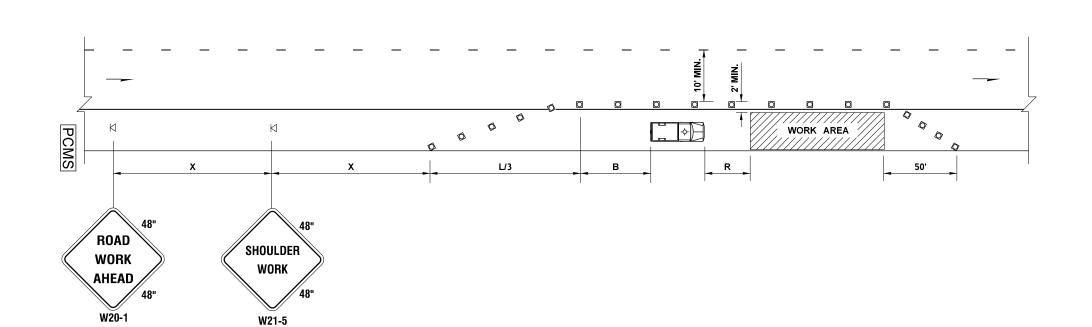
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

	MININ	IUM S	HOULI	DER T	APER	LENG	TH =	L/3 (fe	et)	
SHOULDER				Pos	ted Sp	eed (n	nph)			
WIDTH (feet)	25	30	35	40	45	50	55	60	60 65 70	70
8'	40	40	60	90	-	-	-	-	-	-
10'	40	60	90	90	-	-	-	-	-	-
	USF	A 3 DF	VICES	TAPER E	OR SH	OULDER	S LESS	THEN 8	3'	,

				BUF	FER I	DATA							
		LON	IGITU	DINAL	BUF	FER :	SPA	CE	: = B	ļ			
SPEED (MF	PH)	25	30	35	40	45	50)	55	60	65	70	
LENGTH (fe	eet)	155	200	250	305	360	42	5	495	570	645	730	
TRANS	PORT	ABLE	ATTE	ENUAT	OR F	ROLL	AHE	ΞΑΓ	D DIS	TAN	CE = I	₹	
		LE WEI0 22,000 lb				ŀ	HOST		EH I CLE 22,000		GHT		
< 45 MPH	45-55	MPH	> !	55 MPH	<	45 MP	Н	45	5-55 M	PH	> 55 [MPH	
100'	12	23'		172'		74'			100'		150'		

PROTECTIVE VEHICLE (WORK VEHICLE) = R

NO SPECIFIED DISTANCE REQUIRED



CHANNELIZATION DEVICE SPACING (feet) TAPER TANGENT 35/40 30 60 25/30 20 40

LEGEND

TEMPORARY SIGN LOCATION

CHANNELIZING DEVICES PROTECTIVE VEHICLE

PCMS								
1	2							
RIGHT LANE CLOSURE	1 MILE AHEAD							
2.0 SEC	2.0 SEC							

SHOULDER CLOSURE - LOW SPEED (40 MPH OR LESS)

FIELD LOCATE 1 MILE ± IN ADVANCE OF LANE CLOSURE TAPER.

NOTES

- 1. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20'(FT).
- 2. ALL SIGNS ARE BLACK ON ORANGE.

NOT TO SCALE

FILE NAME	G:\444302\03 - Design\XL6387	⁷ 21-23 Breakaway Cable Terminal Replacement - Intersta	te\20-CADD-F	Plans\2	20-11 PS&E Sh	eets\OLD CADD FILES STORA	GE\D00021T_PS_TCP_3.dgn				
TIME	4:20:17 PM				REGION STATE	FED.AID PROJ.NO.					PLAN REF NO
DATE	9/28/2023				40 WASH	SEC 164-9999(866)				SWR	TC1
PLOTTED BY	sheikhu				TU WASH	020 104-3333(000)				BREAKAWAY CABLE TERMINAL REPLACEMENT	'0'
DESIGNED BY					JOB NUMBER				Washington State	FREEWAYS 21-23 RE-ADVERTISE	SHEET
ENTERED BY					23X338				, -		21
CHECKED BY					CONTRACT NO.	LOCATION NO.			Department of Transportation		OF
PROJ. ENGR.							DATE	DATE		TRAFFIC CONTROL PLAN	29 SHEETS
REGIONAL ADM		REVISION	DATE	BY	1		P.E. STAMP BOX	P.E. STAMP BOX		INALLIO CONTROL PLAN	SHEETS

	MININ	IUM S	HOULI	DER T	APER	LENG	TH =	L/3 (fe	et)		
SHOULDER		Posted Speed (mph)									
WIDTH (feet)	25	30	35	40	45	50	55	60	65	70	
8'	-	-	-	-	120	130	150	160	170	190	
10'	-	-	-	-	150	170	190	200	220	240	
USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.											

SIGN SPACIN	NG = X (1)	
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ±
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
(1) ALL SPACING MAY BE ADJUSTED RAMPS, AT-GRADE INTERSECTIONS		INTERCHANGE

	ELIZATION PACING (fe	
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
35/45	30	60

	BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B											
	LON	IGITUI	JINAL	BUF	-EK 3	PACE	: = в				
SPEED (MPH)	55	60	65	70							
LENGTH (feet)	LENGTH (feet) 155 200 250							570	645	730	
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R											
HOST VEHIC					HOST VEHICLE WEIGHT						

< 45 MPH

74'

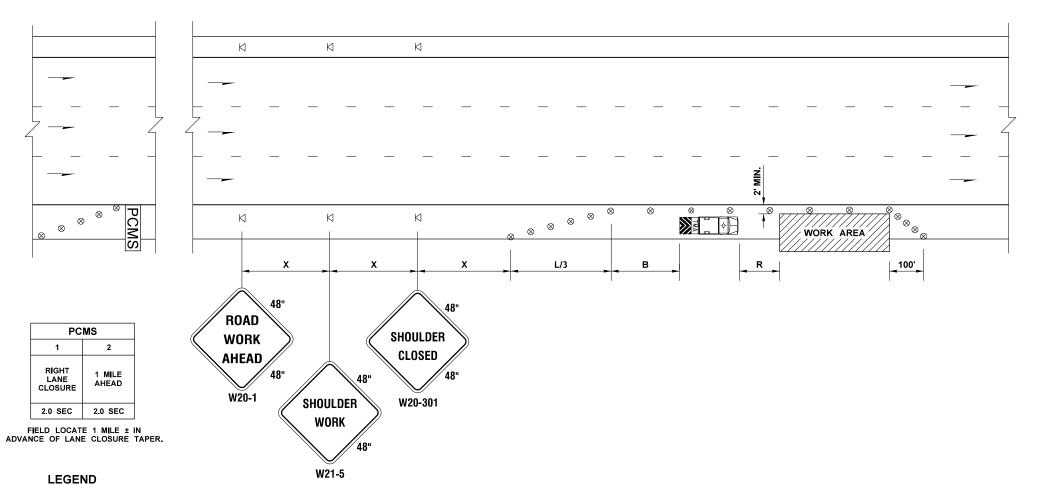
45-55 MPH

> 55 MPH

150'

> 55 MPH

172'



NOTES

< 45 MPH

100'

45-55 MPH

- 1. NO ENCROACHMENT IN TRAVELED LANE IF ENCROACHMENT IS NECESSARY, LANE SHALL BE CLOSED.
- 2. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20' (FT) O.C.
- 3. ALL SIGNS ARE BLACK ON ORANGE.
- 4. THE CONTRACTOR SHALL ESCORT BICYCLISTS THROUGH THE WORK ZONE DURING THE COURSE OF CONSTRUCTION.

TEMPORARY SIGN LOCATION

▼ TRAFFIC SAFETY DRUM

TRANSPORTABLE ATTENUATOR

NOT TO SCALE

SHOULDER CLOSURE - HIGH SPEED

FILE NAME	G:\444302\03 - Design\XL6387	⁷ 21-23 Breakaway Cable Terminal Replacement - Intersta	te\20-CADD-P	lans\20-11 PS&E \$	Sheets\OLD CADD FILES STORA	GE\D00021T_PS_TCP.dgn				
TIME	5:02:10 PM			REGION STATI	FED.AID PROJ.NO.	1				PLAN REF NO
DATE	10/5/2023			10 14/45	H SEC 164-9999(866)			\	SWR	TC2
PLOTTED BY	sheikhu			I IU WAS					BREAKAWAY CABLE TERMINAL REPLACEMENT	102
DESIGNED BY				JOB NUMBER				Washington State	FREEWAYS 21-23 RE-ADVERTISE	SHEET
ENTERED BY				23X338						22
CHECKED BY				CONTRACT NO.	LOCATION NO.			Department of Transportation		OF
PROJ. ENGR.					XL6387	DATE	DATE		TRAFFIC CONTROL PLAN	29 SHEETS
REGIONAL ADM.	•	REVISION	DATE	BY	/LU307	P.E. STAMP BOX	P.E. STAMP BOX		TRAFFIC CONTROL PLAN	SHEETS

	MINII	MUM	LANE	CLOS	JRE T	APER	LENGT	TH = L	_ (feet)			
LANE		Posted Speed (mph)											
WIDTH (feet)	25	30	35	40	45	50	55	60	65	70			
10	105	150	205	270	450	500	550	-	-	-			
11	115	165	225	295	495	550	605	660	-	-			
12	125	180	245	320	540	600	660	720	780	840			
MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)													

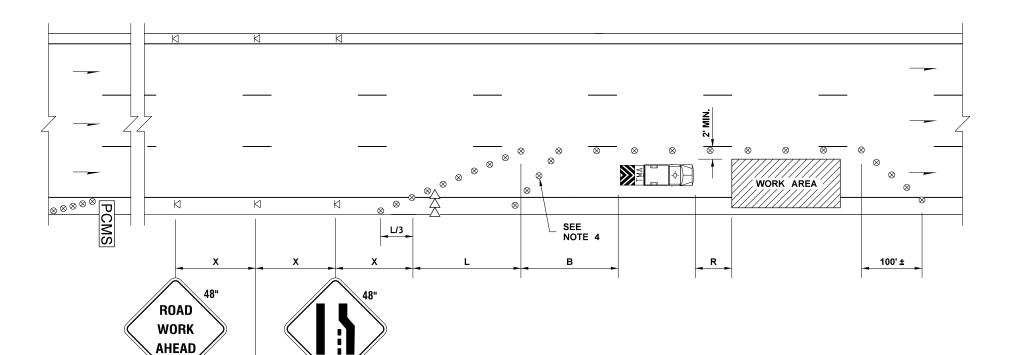
	MIM	MUMIN	SHOU	JLDER	TAPE	R LEN	NGTH	= L/3	(feet)	
SHOULDER				Pos	ted Sp	eed (n	nph)			
WIDTH (feet)	25	30	35	40	45	50	55	60	65	70
8'	40	40	60	90	120	130	150	160	170	190
10'	40	60	90	90	150	170	190	200	220	240
	USE A	MINIMUN	1 3 DEV	ICES TA	APER FO	OR SHO	ULDER	LESS TH	HEN 8'.	

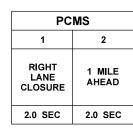
SIGN SPACIN	SIGN SPACING = X (1)											
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ±										
RURAL HIGHWAYS	60 / 65 MPH	800' ±										
RURAL ROADS	45 / 55 MPH	500' ±										
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±										
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' ± (2)										
RESIDENTIAL & BUSINESS DISTRICTS												
URBAN STREETS	25 MPH OR LESS	100' ± (2)										
(1) ALL SPACING MAY BE ADJUSTED TO	ACCOMMODATE IN	TERCHANGE										

(1)	ALL	SPACING	MAY	BE	ADJUSTED	то	ACCO	MODATE	: IN	TERCHANGE	
		RAMPS, A	Γ-GRAI	DΕ	INTERSECT	IONS	AND	DRIVEWA	YS.		
(2)	THIS	SPACING	MAY	BE	REDUCED) IN	URBAN	AREAS	TO	FIT	
		ROADWAY	CON	DITI	ONS						

CHANNELIZATION DEVICE SPACING (feet) MPH TAPER TANGENT 50/70 40 80 35/45 30 60 25/30 20 40								
MPH	TAPER	TANGENT						
50/70	40	80						
35/45	30	60						
25/30	20	40						

			В	UFFE	R D	ATA					
LONGITUDINAL BUFFER SPACE = B											
SPEED (MF	SPEED (MPH) 25 30 35 40 45 50 55 60 65 70										
LENGTH (fe	eet)	155	200	250	305	360	425	495	570	645	730
TRANSPO	ORTABI	LE A	TTEN	UATO	R RC	LL A	HEAD	DIST	ANCE	= R	•
	VEHICLE 0 TO 22,					I		VEHICLE → 22,000		ТН	
< 45 MPH	45-55 N	MPH	> !	• 55 MPH < 45 MPH 45-55 MPH > 55					> 55 I	МРН	
100'	123	3'		172'		74'		100'		150'	





FIELD LOCATE 1 MILE ± IN ADVANCE OF LANE CLOSURE TAPER.

NOTES

- 1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
- 2. EXTEND DEVICE TAPER AT L/3 ACROSS SHOULDER.
- 3. DEVICES SHALL NOT ENCROACH INTO THE ADJACENT LANE.
- 4. USE TRANSVERSE DEVICES IN CLOSED LANE EVERY 1000'(FT) (RECOMMENDED).
- 5. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE
- 6. ALL SIGNS ARE BLACK ON ORANGE.
- 7. THE CONTRACTOR SHALL ESCORT BICYCLISTS THROUGH THE WORK ZONE DURING THE COURSE OF CONSTRUCTION

SINGLE-LANE CLOSURE FOR MULTI-LANE ROADWAYS

NOT TO SCALE

DATE

PORTABLE CHANGEABLE MESSAGE SIGN PCMS G:\444302\03 - Design\XL6387 21-23 Breakaway Cable Terminal Replacement - Interstate\20-CADD-Plans\20-11 PS&E Sheets\OLD CADD FILES STORAGE\D00021T_PS_TCP.dgn FILE NAME 4:27:37 PM

TEMPORARY SIGN LOCATION

TRAFFIC SAFETY DRUM

SEQUENTIAL ARROW SIGN

TRANSPORTABLE ATTENUATOR

LEGEND

9/28/2023

sheikhu

TIME

DATE

PLOTTED BY

DESIGNED BY

ENTERED BY

CHECKED BY

REGIONAL ADM.

PROJ. ENGR.

W20-1

REVISION

W4-2(L)

JOB NUMBER

23X338

DATE BY

RIGHT LANE

CLOSED AHEAD

W20-5R

FED.AID PROJ.NO. 10 WASH SEC 164-9999(866) LOCATION NO. XL6387

Washington State **Department of Transportation**

DATE

BREAKAWAY CABLE TERMINAL REPLACEMENT FREEWAYS 21-23 RE-ADVERTISE

PLAN REF NO

TC3

SHEET 23

29 SHEETS

TRAFFIC CONTROL PLAN

MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)										
LANE	= ::=									
WIDTH (feet)	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	780	840

	MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)									
SHOULDER Posted Speed (mph)										
WIDTH (feet)	25	30	35	40	45	50	55	60	65	70
8'	40	40	60	90	120	130	150	160	170	190
10'	40	60	90	90	150	170	190	200	220	240
	USF A I	MINIMUN	1 3 DEV	ICES TA	APER FO	OR SHO	ULDER	LESS TH	HFN 8'	

SIGN SPACING	= X (1)	
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ±
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350'±
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' ± (2)
RESIDENTAL & BUSINESS DISTRICTS		
URBAN STREETS	25 MPH OR LESS	100' ± (2)

ı	(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE
ı	RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
ı	
ı	(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT
ı	ROADWAY CONDITIONS

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	SPEED (MPH) 25 30 35 40 45 50 55 60 65 70									
LENGTH (feet) 155 200 250 305 360 425 495 570 645 730										
TRANSPORT	ABIF	TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R								

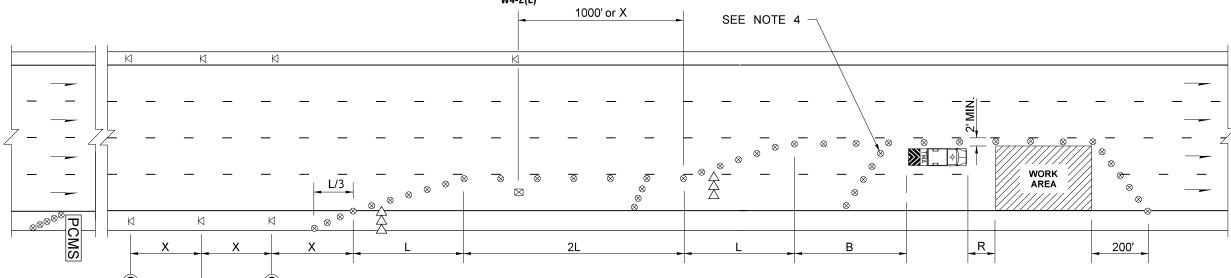
PCMS							
1	2						
2 LANES CLOSED AHEAD	WATCH FOR SLOW TRAFFIC						
2.0 SEC	2.0 SEC						

TRANSF	PORTABLE A	ATTENUATOR	R ROLL AHE	AD DISTAN	CE = R			
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs. HOST VEHICLE WEIGHT > 22,000 lbs.								
< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH			
100'	123'	172'	74'	100'	150'			



FIELD LOCATE 1 MILE ± IN ADVANCE OF LANE CLOSURE TAPER.

CHANNELIZATION DEVICE SPACING (feet)									
MPH	TAPER	TANGENT							
50/70	40	80							
35/45	30	60							
25/30	20	40							



LEGEND

PCMS

TRAFFIC SAFETY DRUM

TEMPORARY SIGN LOCATION
SEQUENTIAL ARROW SIGN

TRANSPORTABLE ATTENUATOR

DOUBLE-LANE CLOSURE FOR MULTI-LANE ROADWAYS

TEMPORARY SIGN LOCATION (7'(FT) MOUNTING HEIGHT)

PORTABLE CHANGEABLE MESSAGE SIGN

ROAD

WORK AHEAD

W20-1

RIGHT

TWO LANES

CLOSED

AHEAD

W20-501

NOT TO SCALE

NOTES

- 1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
- 2. EXTEND DEVICE TAPER AT L/3 ACROSS SHOULDER.
- 3. DEVICES SHALL NOT ENCROACH INTO THE ADJACENT LANES.
- 4. USE TRANSVERSE DEVICES IN CLOSED LANE EVERY 1000'(FT) (RECOMMENDED).
- 5. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20' (FT).
- 6 ALL SIGNS ARE BLACK ON ORANGE.
- 7. THE CONTRACTOR SHALL ESCORT BICYCLISTS THROUGH THE WORK ZONE DURING THE COURSE OF CONSTRUCTION.

G:\444302\03 - Design\XL6387 21-23 Breakaway Cable Terminal Replacement - Interstate\20-CADD-Plans\20-11 PS&E Sheets\OLD CADD FILES STORAGE\D00021T_PS_TCP.dgn FILE NAME TIME 4:27:50 PM FED.AID PROJ.NO. 10 WASH SEC 164-9999(866) DATE 9/28/2023 PLOTTED BY sheikhu JOB NUMBER DESIGNED BY 23X338 ENTERED BY CHECKED BY LOCATION NO. PROJ. ENGR. XL6387 DATE REVISION DATE BY REGIONAL ADM.

W4-2(L)



DATE

SWR BREAKAWAY CABLE TERMINAL REPLACEMENT FREEWAYS 21-23 RE-ADVERTISE

_ PLAN

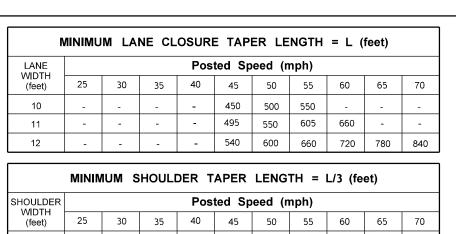
PLAN REF NO

TC4

^{SHEET}

29 SHEETS

TRAFFIC CONTROL PLAN



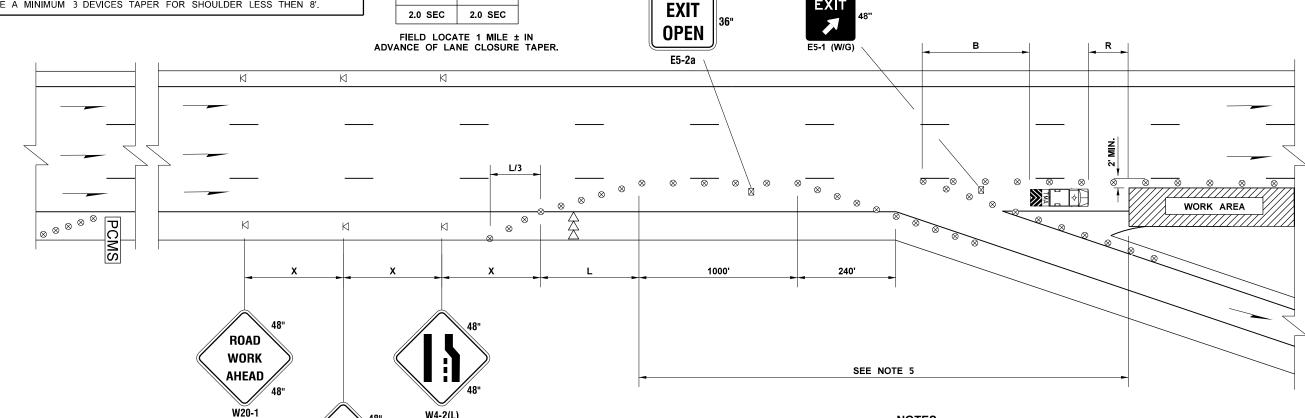
CION CDACIN	IC - V (4)	
SIGN SPACIN	IG = X (1)	
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ±
RURAL HIGHWAYS	60 /65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
(1) ALL SPACING MAY BE ADJUSTED RAMPS, AT-GRADE INTERSECTIONS		INTERCHANGE

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH) 25 30 35 40 45 50 55 60 65 70										
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R										
HOST VEHIC					ŀ	HOST_V	'EHICLE		HT	

MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)										
SHOULDER Posted Speed (mph)										
WIDTH (feet)	25	30	35	40	45	50	55	60	65	70
8'	-	-	-	-	120	130	150	160	170	190
10'	-	-	-	-	150	170	190	200	220	240
ı	USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.									

			CHANNELIZATION DEVICE SPACING (feet)						
PC	MS	MPH	TAPER	TANGENT					
		50/70	40	80					
1	2	40/45	30	60					
RIGHT LANE CLOSURE	1 MILE AHEAD		OF	PTIONAL 48"					

9,900 TO 22,000 lbs. > 22,000 lbs. > 55 MPH < 45 MPH 45-55 MPH > 55 MPH < 45 MPH 45-55 MPH 172' 150'



7' HEIGHT 48"

K TEMPORARY SIGN LOCATION

SEQUENTIAL ARROW SIGN

 \otimes TRAFFIC SAFETY DRUM

LEGEND

PCMS

TRANSPORTABLE ATTENUATOR

PORTABLE CHANGEABLE MESSAGE SIGN TEMPORARY SIGN LOCATION (7'MOUNTING HEIGHT)

TEMPORARY OFF-RAMP FOR **MULTI-LANE ROADWAYS**

NOT TO SCALE

- 1. SEE SPECIAL PROVISIONS FOR CLOSURE HOUR RESTRICTIONS.
- 2. USE A DOWNSTREAM TAPER TO END THE LANE CLOSURE WITH 20'(FT) DEVICE SPACING.
- 3. DEVICES SHALL NOT ENCROACH INTO ADJACENT LANES.
- 4. USE TRANSVERSE DEVICES IN CLOSED LANES EVERY 1000' (FT) 35/64 (RECOMMENDED).
- 5. SEE SHEET TC6 FOR A SHORT TERM OFF-RAMP CLOSURE WHEN THE WORK AREA LOCATION RESTRICTS RAMP ACCESS.
- 6. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.
- 7. THE CONTRACTOR SHALL ESCORT BICYCLISTS THROUGH THE WORK ZONE DURING THE COURSE OF CONSTRUCTION.

FILE NAME	G:\444302\03 - Design\XL6387	21-23 Breakaway Cable Terminal Replacement - Intersta	te\20-CADD-P	lans\2	20-11 PS	&E Sh	eets\OLD CADD FILES STORA	GE\D00021T_PS_TCP.dgn
TIME	4:28:09 PM				REGION	STATE	FED.AID PROJ.NO.	
DATE	9/28/2023				10	MA CH	SEC 164-9999(866)	
PLOTTED BY	sheikhu				10	WASH		
DESIGNED BY					JOB N	-		
ENTERED BY					23X	338		
CHECKED BY					CONTR	ACT NO.	LOCATION NO.	
PROJ. ENGR.							XL6387	DATE
REGIONAL ADM.		REVISION	DATE	BY			X20301	P.E. STAMP BOX

RIGHT LANE

CLOSED

AHEAD

W20-5R

W4-2(L)

Washington State Department of Transportation

NOTES

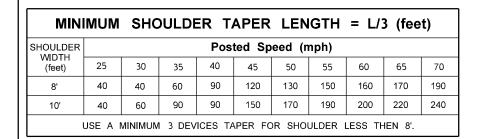
DATE

BREAKAWAY CABLE TERMINAL REPLACEMENT FREEWAYS 21-23 RE-ADVERTISE

TRAFFIC CONTROL PLAN

SHEET 25 OF 29 SHEETS

PLAN REF NO TC5



SIGN SPACING	= X (1)	
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ±
RURAL HIGHWAYS	60 / 65 MPH	800'±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' ± (2)
RESIDENTAL & BUSINESS DISTRICTS		
URBAN STREETS	25 MPH OR LESS	100' ± (2)
(4) ALL CRACING MAY BE ADJUCTED TO	ACCOMMODATE IN	TEDOLIANOE

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS. (2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

CHANNELIZATION DEVICE SPACING (feet)										
MPH	TAPER	TANGENT								
50/70	40	80								
35/45	30	60								
05/20	00	40								

SPACING (feet)								
MPH TAPER TANGENT								
50/70	40	80						
35/45	30	60						
25/30 20 40								

PC	MS	PC
1	2	1
EXIT XXX CLOSED	USE ALT ROUTE	EXIT XXX CLOSED
2.0 SEC	2.0 SEC	2.0 SEC

FIELD LOCATE

PC	PCMS							
1	2							
EXIT XXX CLOSED	MM/DD XAM TO XPM							
2.0 SEC	2.0 SEC							

FIELD LOCATE 7 DAYS MIN PRIOR TO CLOSURE

LEGEND TYPE 3 BARRICADE TEMPORARY SIGN LOCATION CHANNELIZING DEVICES TRAFFIC SAFETY DRUM PCMS PORTABLE CHANGEABLE MESSAGE SIGN

TEMPORARY SIGN LOCATION (7' MOUNTING HEIGHT)

W20-1 (ALT) TYPICAL ON-RAMP CLOSURE DEVICE SPACING REDUCED TO 1/2 DISTANCE ACROSS EXIT RAMP DURING CLOSURE PCMS PCMS 500' ± RAMP CLOSED RAMP R11-201 CLOSED 48" x 30" AHEAD B/W SHOULDER W20-1 (ALT) CLOSED **OFF-RAMP CLOSURE** ROAD INSTALL 3 DAYS MIN. WORK PRIOR TO CLOSURE AHEAD NOTES

SHORT TERM RAMP CLOSURES

 \triangleleft \triangleleft 5

> CLOSED AHEAD

 \Rightarrow

1

W20-1

NOT TO SCALE

1. SEE SPECIAL PROVISIONS FOR CLOSURE HOUR RESTRICTIONS.

2. TYPICAL APPLICATION SHOWN ADJUST FOR SITE CONDITIONS.

INSTALL 3 DAYS MIN.

PRIOR TO CLOSURE

PCMS

<<u>~</u> ⊗ `

CLOSED

OFF-RAMP

3. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

4. THE CONTRACTOR SHALL ESCORT BICYCLISTS THROUGH THE WORK ZONE DURING THE COURSE OF CONSTRUCTION.

5. FOR A RAMP CLOSURE ALL PCMS'S WILL BE PLACED 7 DAYS IN ADVANCE TO NOTIFY THE TRAVELING PUBLIC

FILE NAME	G:\444302\03 - Design\XL6387	21-23 Breakaway Cable	Terminal Replacement - Intersta	te\20-CADD-P	lans\2	0-11 PS	S&E Sh	eets\OLD	CADD FILES STORA	GE\D00021T_PS_TCP.dgn	
TIME	5:02:26 PM					REGION NO.	STATE	FED.	AID PROJ.NO.		
DATE	10/5/2023						WASH	SEC	164-9999(866)		
PLOTTED BY	sheikhu					10	WASH				
DESIGNED BY						JOB N					
ENTERED BY						23X	338				
CHECKED BY						CONTRA	ACT NO.		LOCATION NO.		
PROJ. ENGR.									XL6387	DATE	
REGIONAL ADM.		R	EVISION	DATE	BY				XL0301	P.E. STAMP BOX	



DATE

R11-201 48" x 30"

B/W

RAMP

CLOSED

 \Rightarrow

BREAKAWAY CABLE TERMINAL REPLACEMENT FREEWAYS 21-23 RE-ADVERTISE

TRAFFIC CONTROL PLAN

TC6 26 OF 29 SHEETS

PLAN REF NO

CLOSED

AHEAD

W20-1 (ALT)

ľ	MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)													
LANE Posted Speed (mph)														
(feet)	25	30	35	40	45	50	55	60	65	70				
10	-	-	-	-	450	500	550	-	-	-				
11	-	-	-	-	495	550	605	660	-	-				
12	-	-	-	-	540	600	660	720	780	840				

	MININ	IUM S	HOULI	DER T	APER	LENG	TH =	L/3 (fe	et)		
SHOULDER	SHOULDER Posted Speed (mph)										
(feet)	25	30	35	40	45	50	55	60	65	70	
8'	-	-	-	-	120	130	150	160	170	190	
10'	-	-	-	-	150	170	190	200	220	240	
	USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.										

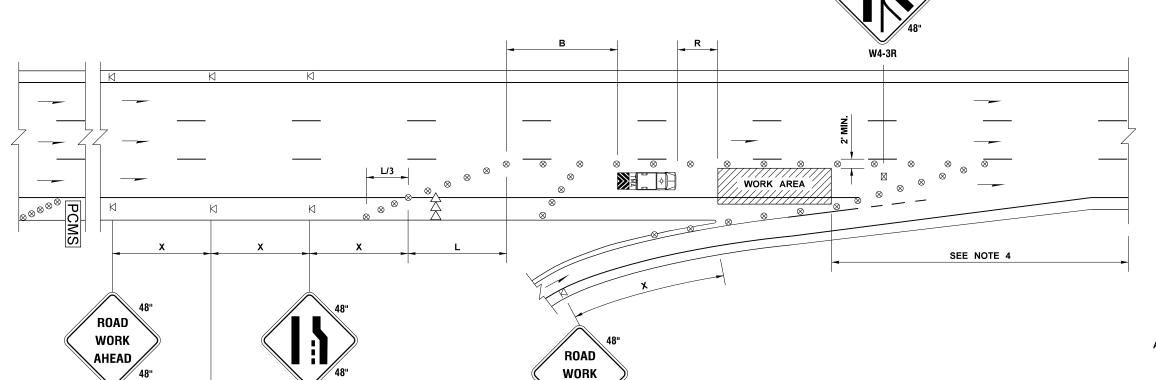
SIGN SPACING	= X (1)	
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ±
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.

	CHANNELIZATION DEVICE SPACING (feet)										
MPH	TAPER	TANGENT									
50/70	40	80									
40/45	30	60									

BUFFER DATA												
LONGITUDINAL BUFFER SPACE = B												
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70		
LENGTH (feet) 155 200 250 305 360 425 495 570 645 730												

TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs. HOST VEHICLE WEIGHT > 22,000 lbs. < 45 MPH</td> 45-55 MPH > 55 MPH 45-55 MPH > 55 MPH 100' 123' 172' 74' 100' 150'



AHEAD

W20-1

PCMS			
1	2		
RIGHT LANE CLOSURE	1 MILE AHEAD		
2.0 SEC	2.0 SEC		

FIELD LOCATE 1 MILE ± IN ADVANCE OF LANE CLOSURE TAPER.

TRAFFIC SAFETY DRUM

LEGEND

 \bowtie

PCMS

 \boxtimes

TEMPORARY SIGN LOCATION
SEQUENTIAL ARROW SIGN

TRANSPORTABLE ATTENUATOR

TEMPORARY SIGN LOCATION (7'(FT) MOUNTING HEIGHT)

PORTABLE CHANGEABLE MESSAGE SIGN

W20-1

TEMPORARY ON-RAMP FOR MULTI-LANE ROADWAYS

NOT TO SCALE

NOTES

- 1. SEE SPECIAL PROVISIONS FOR CLOSURE HOUR RESTRICTIONS.
- 2. DEVICES SHALL NOT ENCROACH INTO ADJACENT LANES.
- 3. USE TRANSVERSE DEVICES IN CLOSED LANES EVERY 1000' 35/64 (RECOMMENDED).
- 4. ALL SIGNS ARE BLACK ON ORANGE.
- 5. THE CONTRACTOR SHALL ESCORT BICYCLISTS THROUGH THE WORK ZONE DURING THE COURSE OF CONSTRUCTION.

G:\444302\03 - Design\XL6387 21-23 Breakaway Cable Terminal Replacement - Interstate\20-CADD-Plans\20-11 PS&E Sheets\OLD CADD FILES STOR FILE NAME TIME 4:28:33 PM FED.AID PROJ.NO. DATE 9/28/2023 SEC 164-9999(866) 10 WASH PLOTTED BY sheikhu JOB NUMBER DESIGNED BY 23X338 ENTERED BY CHECKED BY LOCATION NO. PROJ. ENGR. XL6387 DATE REVISION DATE BY REGIONAL ADM.

W4-2(L)

RIGHT LANE

CLOSED

AHEAD

W20-5R



DATE

SWR BREAKAWAY CABLE TERMINAL REPLACEMENT FREEWAYS 21-23 RE-ADVERTISE

PLAN REF NO

TC7

27 OF

29 SHEETS

TRAFFIC CONTROL PLAN

MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)										
SHOULDER Posted Speed (mph)										
WIDTH (feet)	25	30	35	40	45	50	55	60	65	70
8'	40	40	60	90	120	130	150	160	170	190
10'	40	60	90	90	150	170	190	200	220	240
USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.										

MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)										
LANE										
WIDTH (feet)	25	30	35	40	45	50	55	60	65	70
10	-	-	-	-	450	500	550	-	-	-
11	-	-	-	-	495	550	605	660	-	-
12	-	-	-	-	540	600	660	720	780	840

PCMS				
1	2			
USE CAUTION	ROAD WORK AHEAD			
2.0 SEC	2.0 SEC			

PCMS				
1	2			
EXIT XXX CLOSED	MM/DD XAM TO XPM			
2.0 SEC	2.0 SEC			

FIELD LOCATE

FIELD LOCATE 7 DAYS MIN PRIOR TO CLOSURE

SIGN SPACING	= X (1)	
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ±
RURAL HIGHWAYS	60 / 65 MPH	800'±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' ± (2)
RESIDENTAL & BUSINESS DISTRICTS		
URBAN STREETS	25 MPH OR LESS	100' ± (2)
(4) ALL ODAONIO MANY DE ABULOTED TO	A COCHMAND ATE IN	TEDOLIANOE

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS. (2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

80

60

40

CHANNELIZATION DEVICE							
SPACING (feet)							
MDII	TADED	TANCENT					

40

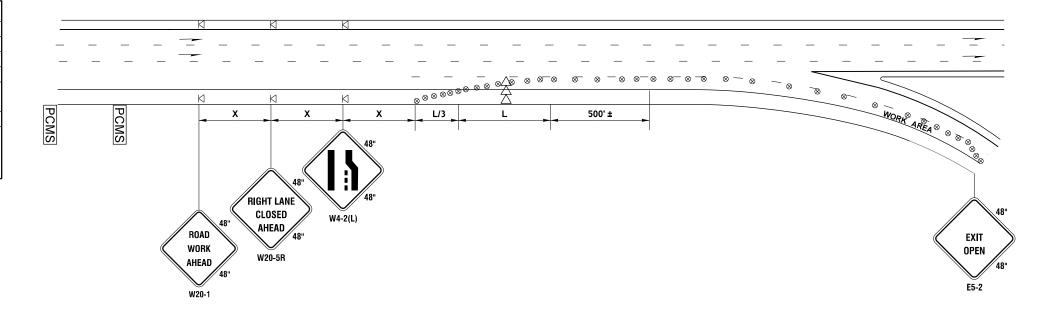
30

20

50/70

35/45

25/30



LEGEND

→ TYPE 3 BARRICADE

TEMPORARY SIGN LOCATION

CHANNELIZING DEVICES

TRAFFIC SAFETY DRUM

PCMS PORTABLE CHANGEABLE MESSAGE SIGN

TEMPORARY SIGN LOCATION (7'MOUNTING HEIGHT)

SEQUENTIAL ARROW SIGN

CLOSURE UPTO WORK AREA

OFF-RAMP RIGHT LANE

2. TYPICAL APPLICATION SHOWN ADJUST FOR SITE CONDITIONS. 3. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

1. SEE SPECIAL PROVISIONS FOR CLOSURE HOUR RESTRICTIONS.

4. THE CONTRACTOR SHALL ESCORT BICYCLISTS THROUGH THE WORK ZONE DURING THE COURSE OF CONSTRUCTION.

5. FOR A RAMP CLOSURE ALL PCMS'S WILL BE PLACED 7 DAYS IN ADVANCE TO NOTIFY THE TRAVELING PUBLIC

NOT TO SCALE

FILE NAME	G:\444302\03 - Design\XL6387	7 21-23 Breakaway Cable Terminal Replacement - Intersta	ite\20-CADD-P	lans\2	0-11 PS&	E Sh	eets\OLD CADD FILES STORA	GE\D00021T_PS_TCP.dgn	_
TIME	2:01:24 PM				REGION	STATE	FED.AID PROJ.NO.		
DATE	10/9/2023				10 W	VASH	SEC 164-9999(866)		1
PLOTTED BY	sheikhu				10 10	VASH	`		1
DESIGNED BY	U. SHEIKH				JOB NUM				
ENTERED BY	U. SHEIKH				21X3	28			
CHECKED BY	M. DEGENHART				CONTRAC	T NO.	LOCATION NO.		
PROJ. ENGR.	M. BRIGGS						XL6387	— DATE	
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			AE0301	P.E. STAMP BOX	

Washington State **Department of Transportation**

DATE

NOTES

BREAKAWAY CABLE TERMINAL REPLACEMENT FREEWAYS 21-23 RE-ADVERTISE

TRAFFIC CONTROL PLAN

TC8 28 05 29 SHEETS

